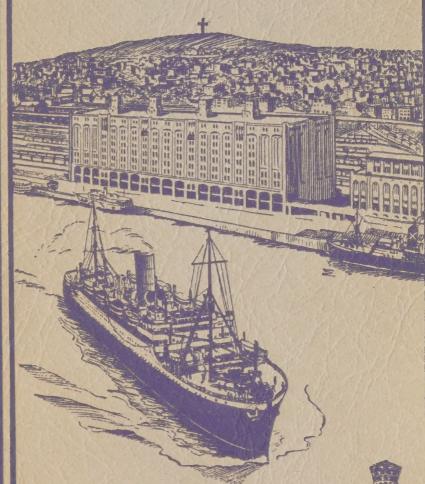
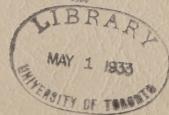
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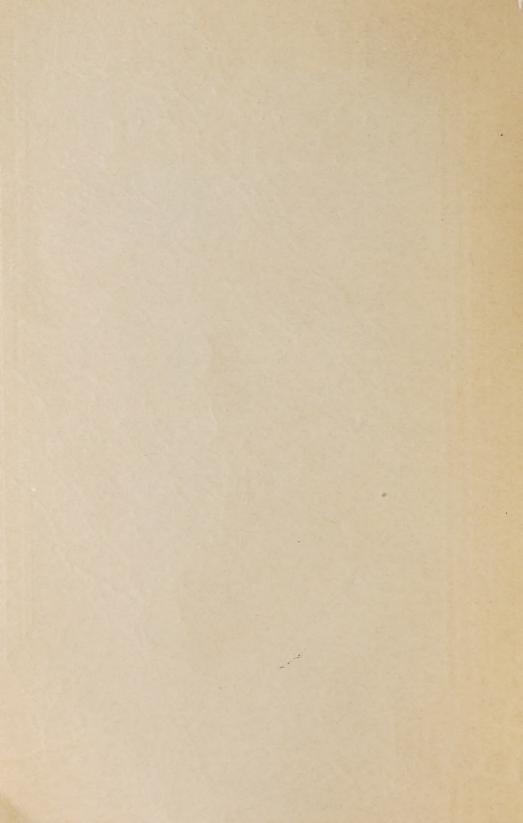
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ANNUAL REPORT

OF THE

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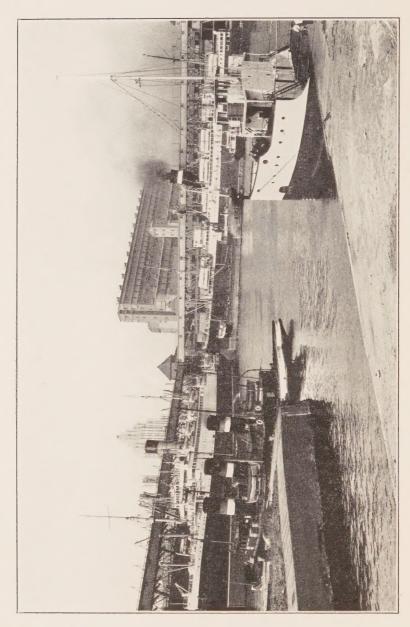
of Montreal

For the Year 1932



COMMISSIONERS:

JOHN C. NEWMAN, President LT.-COL. H. J. TRIHEY, K.C. ALPHONSE RAYMOND



A BUSY CORNER OF THE PORT OF MONTREAL. IN THE FOREGROUND IS THE ENTRANCE OF THE LACHINE CANAL.

Harbour Commissioners of Montreal

MONTREAL, 1st April, 1933.

To the Hon. ALFRED DURANLEAU, K.C., M.P.,
Minister of Marine,
Ottawa, Ont.

Sir:-

In compliance with Section 51 of the Commissioners' Act 57-8 Victoria, Chapter 48, the Harbour Commissioners of Montreal herewith respectfully submit their Annual Report of operations for the year ended 31st December, 1932.

We have the honour to be, Sir, Yours very respectfully,

JOHN C. NEWMAN, President.

H. J. TRIHEY,

ALPHONSE RAYMOND,

Harbour Commissioners.

IN PRESENTING their Annual Report for the year Nineteen Hundred and Thirty-two, the Harbour Commissioners of Montreal take this opportunity of recording their appreciation of the unfailing support and courteous co-operation of the Minister of Marine, the Hon. Alfred Duranleau, and his Deputy Minister, and the other officers of the Department at Ottawa, whose kindly interest has been of very material assistance to them in the solving of the many problems which they were called upon to deal with during the year.

Harbour Commissioners of Montreal ANNUAL REPORT

1932

THE IMPERIAL ECONOMIC CONFERENCE

The Imperial Economic Conference, which met at Ottawa in the summer of 1932 for the purpose of discussing and formulating trade agreements between the various nations of the Empire, may well be regarded by Canadian Port authorities as one of the outstanding achievements of this generation.

The restrictions on international trade which have been created by the current depression and by the ever-mounting barriers in the form of tariffs and embargoes, etc. have made serious inroads into the business of ports all over the world. In common with other harbours, the Port of Montreal has been adversely affected by this trend, and the Harbour Commissioners of Montreal have watched with intense interest the steady growth of sentiment amongst British peoples in favour of inter-Imperial trade. Such ventures in recent years as the visits to Montreal of an Australian Good-Will Ship and a Scottish Trade Mission Ship have been straws showing the direction of this favourable wind, and the movement was brought to an entirely satisfactory and successful culmination in Ottawa during 1932 with the inter-Imperial Agreements resulting from the Economic Conference.

These new trade Agreements between Canada and the United Kingdom, and between this Dominion and her sister Dominions, make interesting reading. They contain the basis for an important impetus to sea-borne trade. Canada will give preference in her markets to products of the United Kingdom and the sister Dominions, and will receive important preferences and advantages in the vast consuming markets of the Old Country, and in the less pretentious but eagerly sought-after markets of Australia, South Africa, the West Indies, etc.

These preferences will be availed of by Empire exporters, whether in this country or in another country. The interchange of commodities will receive a valuable fillip, and the constituent countries forming the British Commonwealth of Nations will advance a step further along the road to the strengthening and mutually advantageous ideal of progressive inter-Imperial trade.

The increasing, by this means, of sea-borne freights between Empire countries cannot fail to have far-reaching results which will be beneficial not only to Imperial shipping and railways, but to the business of Canadian ports, and particularly the Port of Montreal. The Agreements were concluded too late in 1932 to materially affect the Port's business in that year, but even during the short period of the navigation season which remained after the Agreements went into effect, and especially in the month of November, imports of British coal over the Montreal wharves reached proportions never before experienced, and shipments of Canadian grain from Montreal to British ports were on a scale reminiscent of the pre-depression era.

It is the confident anticipation of the Commissioners that the approaching season of navigation will afford satisfactory evidence of the working of these new Agreements, with corresponding advantages to the trade of the Port. Everything which they can do, consistent with their responsibilities as administrators of this great Canadian

seaport, to encourage and foster such new business will be done.

One of the most interesting developments of the Ottawa Conference, which was not directly provided for in the Agreements, but which has since been the subject of various Rulings, concerns the limiting of the British preference on Canadian grain to such grain as is shipped from Canadian ports. It will not be amiss to mention that this important point was first raised by the Harbour Commissioners of Montreal, who communicated on the subject with the Prime Minister and members of the Cabinet. After considerable discussion in the Canadian and British Houses of Parliament, in the Press and elsewhere, the British Customs authorities finally ruled that Canadian grain shipped from United States ports would not be entitled to receive the six cent preference.

This eminently satisfactory ruling should have the effect of encouraging and fostering the shipment of Canadian grain to the United Kingdom through all-Canadian transportation channels and via Canadian ports. It will inevitably succeed in checking the diversion of our most important export product through foreign channels, which for many years has been a source of annoyance to Canadians interested in the prosperity of our own resources. Furthermore, it will preserve for our own railroads, steamships and harbours the millions of dollars of revenue which similar non-Canadian agencies have been drawing annually for more than two decades from the export movement of Canadian grain.

GROWTH OF BULK CARGO IMPORTS

The outstanding feature of the development of Montreal Harbour business in the past few years has been the constant growth of bulk cargo imports.

Since 1928 the total tonnage of imports has recorded an annual increase, from 2,543,685 tons in that year to 4,036,045 tons in 1932.

The foresight of the Commissioners in providing additional wharf space for handling coal, and in constructing new oil wharves for the importing companies, has been amply justified in the past three years.

Imports of British anthracite coal in 1928 amounted to 359,253 tons. In 1932 they reached a total of 1,118,287 tons, an increase of 211% in four years.

Imports of British bituminous coal in 1929 amounted to 26,796 tons. In 1932 they reached a total of 215,804 tons, an increase of 705% in three years.

Total imports of foreign coal by water in 1928 amounted to 511,856 tons. In 1932 they reached a total of 1,444,556 tons, an increase of 182% in four years.

Imports of oil and gasoline in 1930 amounted to 960,906 tons. In 1932 they reached a total of 1,571,856 tons, an increase of 63% in two years.

Imports of raw sugar in 1928 amounted to 171,459 tons. In 1932 they reached a total of 250,531 tons, an increase of 46% in four years.

Imports of woodpulp in 1928 amounted to 16,062 tons. In 1932 they reached a total of 106,517 tons, an increase of 563% in four years.

Imports of whiting in 1928 amounted to 11,074 tons. In 1932 they reached a total of 30,939 tons, an increase of 179% in four years.

These are noteworthy figures in a period when the entire world is suffering from depressed conditions in industry, and when transportation circles are affected adversely in common with all other agencies of trade.

They demonstrate in an unanswerable fashion the importance of the Port of Montreal to the trade of Canada.

SENATOR J. H. RAINVILLE

On October 6th, 1932, Mr. J. H. Rainville, President of the Harbour Commissioners of Montreal, was appointed to the Senate of Canada.

In accordance with long-established custom, Senator Rainville relinquished the office of President of the Harbour Commission, which he had held since September 6th, 1930.

During his tenure of office at the head of the Montreal Harbour Board, Mr. Rainville won the universal respect and esteem of the shipping and commercial interests and the general public, by the whole-hearted and enthusiastic manner in which he attacked the many problems of port administration.

His interest in marine affairs was not confined to his office in the Harbour Building, but accompanied him to many public functions and lecture platforms, where with felicitous phrase and characteristic gesture he sought to impress upon his hearers the importance of the Harbour of Montreal and the St. Lawrence route in the commercial fabric of this Dominion.

The new Senator's unfailing courtesy and ready charm of manner will be missed from the Harbour Office, and the Commissioners and the Harbour Staff are united in wishing the Hon. J. H. Rainville many happy years of constructive achievement in the Upper Chamber.

NEW PRESIDENT AND COMMISSIONER

By Order-in-Council P.C. 2220, approved by His Excellency the Governor General on the 6th October, 1932, Mr. John C. Newman, who had been a Commissioner since September, 1930, was appointed President of the Board of Harbour Commissioners of Montreal, in succession to Mr. J. H. Rainville.

By Order-in-Council P.C. 2221, approved by His Excellency the Governor General on the 6th October, 1932, Mr. Alphonse Raymond of Montreal was appointed a Member of the Board of Harbour Commissioners of Montreal, to fill the vacancy created by the resignation of Mr. J. H. Rainville.

The personnel of the present Board of Harbour Commissioners of Montreal is, accordingly, as follows:—

Mr. JOHN C. NEWMAN, President.
Lt.-Col. H. J. TRIHEY, K.C., Commissioner.
Mr. ALPHONSE RAYMOND, Commissioner.

SCOTTISH TRADE MISSION SHIP

One of the most interesting developments in the realm of Inter-Imperial trade which the Port of Montreal has experienced for many years took place in May, 1932, with the arrival of the S.S. "Letitia". Completely fitted out as a floating Exhibition, this Anchor-Donaldson Liner was brought to Montreal by the Scottish Trade Mission to Canada, and during her week's stay in Port was visited by many thousands of Montrealers, interested in both the sentimental and the commercial aspects of this venture.

The Mission was accompanied by its Honorary President, the Duke of Montrose, and its Chairman, Mr. George A. Mitchell, past-president of the Association of British Chambers of Commerce.

H. R. H. the Prince of Wales was deeply interested in this voyage of the S.S. "Letitia", and sent the following message to those responsible for organization:—

"I am glad of this opportunity of commending "the Scottish Exhibition Ship to my friends in "Canada. I feel sure that this venture is a happy "augury of the Imperial co-operation which the "Conference at Ottawa will bring, and that when "the Letitia sails she will carry not only a repre-"sentative display of Scottish goods, but also a full "cargo of goodwill. As a Master Mariner, I admire "the enterprise of those who have organized this "effort, and I know that the Letitia will be assured "of a warm welcome when she steams up the St. "Lawrence."

It was pointed out by Mr. Mitchell that the object of the Mission was to increase direct mutual trade between Scotland and Canada. A large trade is already being done. Many thousand tons of Canadian ships have been built on the Clyde, Scottish goods are well known in Canadian markets, and large quantities of Canadian products are sold in Scotland, but it is believed that there are great possibilities for a still larger business, and it is hoped that as a result of this visit the mutual trade will be largely increased. Scotland has manufactures and products of many kinds which should be useful in Canada, as also Canada has much to sell that is required in Scotland.

A most varied and interesting assortment of products were exhibited on the "Letitia", including bagpipes, boilers, books, boot laces, biscuits, coal, chemicals, cornflour, pottery, dogs, fine goods, firebricks, smokeless fuel, golf goods, garments, guns, fishing tackle, hosiery, hardware, heaters, Highland goods, iron and steel, knitted wear, leather, machinery, marine motors, oilsilk, waterproofs, pipes, preserves, paper, rope, canvas, stoneware, shoes, tartans, tea, tobacco, tweeds, wire rope, etc.

THE "CYMBELINE" TRAGEDY

On June 17th, 1932, a series of disastrous explosions took place on board the oil-tanker "Cymbeline", which was being repaired at Canadian Vickers' floating Dry-dock. The first explosion occurred early in the morning, and resulted in severe loss of life amongst Canadian Vickers' employees engaged in repairing the vessel. A serious fire ensued, and while the Montreal Fire Brigade was engaged in fighting the flames, a second explosion took place, which caused extensive damage to the Dry-dock, and brought about the deaths of Fire Chief Gauthier and several of his men.

The Harbour Commissioners' tug "St. Peter", which is equipped with pumps and fire hose, was rushed to the scene, and succeeded in playing several streams of water on the flames. A detachment of the Harbour police was sent to the scene of the fire, and rendered all possible assistance to the City police officers.

This regrettable event, which resulted in the loss of twenty-seven valuable lives, and in severe injuries to thirty-five men, was the subject of an official investigation by Special Commissioner S. A. Baulne, appointed for that purpose by the Dominion Government. Mr. T. W. Harvie, General Manager, appeared before the Court of Enquiry, and gave evidence as to the nature of fire-prevention and fire-fighting measures enforced by the Harbour Commissioners.

The following resolution was adopted by the Commissioners at a meeting held on the day of the tragedy:—

"Resolved that the Commissioners, having learned "with sorrow of the deplorable loss of life which "resulted from the explosion this morning at the "Floating Dry-dock of Canadian Vickers Limited, "desire to express their deep and sincere sympathy "with the City of Montreal, Canadian Vickers "Limited, and the families of the victims of this "disaster, and their recognition of the heroism of "the officers and men of the Montreal Fire Depart-"ment, and of the staffs of Canadian Vickers Limited.

"Be it further resolved that copies of this reso-"lution be forwarded to His Worship the Mayor of "Montreal, and to Canadian Vickers Limited."

THE YEAR'S ACTIVITIES

The year 1932 at the Harbour of Montreal was notable for the resumption of grain exports on a scale measurably greater than in any year since 1928, and for the establishment of a new high figure for all time in tonnage of imports. The very satisfactory import total was due principally to coal, oil, and other bulk cargo receipts, and this combination of grain exports and coal imports was responsible for an increase over recent years in shipping tonnage trading to the Port. In a year such as 1932, which was marked by continually falling commodity prices and market values, with consequent intensification of the difficulties which have beset industry since 1929, it is a cause of gratification to the Harbour Commissioners to be in a position to report a fair measure of recovery at this important Canadian seaport.

Notwithstanding this increased activity, the Commissioners' annual revenue shows a slight decrease of about 2% from the previous year's figure.

REVENUE

Income on revenue account in 1932 amounted to \$4,407,497.19, which was a decrease of \$92,960.40 from the previous year. There were decreases of \$85,543.83 in revenue from Grain Elevator System, \$58,595.18 from Railway Traffic, and \$29,165.95 from Shed Rentals. The following increases in revenue were recorded:—\$24,463.25 from Wharfage Rates; \$20,503.85 in Sundry Receipts; \$20,409.53 in Rental of Harbour Spaces; \$9,683.57 from Cold Storage Warehouse; and \$5,284.36 in Bank Interest.

The decline of approximately \$85,000.00 in Grain Elevator System revenue, which seems somewhat paradoxical in view of the fact that the quantity of grain handled increased by more than 23,000,000 bushels, was due to the fact that during the navigation season of 1932

FINANCIAL STATEMENT
HARRONIC COMMISSION MONTREAL
The Statement of Income and Expenditure for the year used 51th December, TRL catability (the Standish cold) that board for the period. The same, certain by the Analysium, Sulperson.

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ITEMS	TOTAL	GRAND	ITEMS		Torak	ORAND
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Total Balances at 31st December, 1932. Total Balances at 31st December, 1931. Difference in balances, to add	4,312,768.47	41,612.5	Intal Interact tharges Sinking Fund Reserve — Govern- ment Debenture Reserved for Bad Debts		2,466,077.25 508,560.00 7,200.00	
			Total Expenditure on Revenue Account.	100		150-36-41
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			Total, Wharves and Piers.		602,831.45	
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there was practically no grain stored in the elevators for long-term periods. In addition to this, there was a steady flow of grain through the elevators during the navigation season, and a large proportion of the total was delivered to ocean steamers within the ten days' free storage period.

Expenditure on revenue account in 1932 amounted to \$5,456,588.81, made up of Operation and Maintenance, \$2,414,751.56; Interest on Government Debentures, \$2,466,107.94; Sinking Fund Reserve for Government Debentures, \$568,560.00; and Reserve for Bad Debts, \$7,200.00.

Operation and Maintenance total shows a decrease of \$16,325.13 from 1931. Interest on Government Debentures increased by \$65,349.99.

During the past ten years, Interest on Government Debentures has amounted to the impressive total of \$19,571,032.20.

Expenditure on Capital Account in 1932 amounted to \$610,447.04.

Revenues of the Harbour Commissioners of Montreal for the past ten years have been as follows:—

1925	 \$4,749,100.69
1927	
1928	\$5,589,327.12
1929	 \$5,089,561.17
1930	\$4,310,935.13
1931	 \$4,500,457.59
1932	 \$4,407,497.19

Ships and Shipping Tonnage

The number of passenger liners that arrived at the Port in 1932 decreased to 123, with net registered tonnage of 1,131,079 tons, as compared with 134 liners in 1931,



VIEW OF DOWNTOWN MONTREAL, THE HARBOUR, THE RIVER AND THE MONTREAL HARBOUR BRIDGE.

having net registered tonnage of 1,243,874 tons. Notwithstanding this fact, however, trans-Atlantic vessel arrivals were considerably greater than in any of the previous three years, viz. 963 ships, having net registered tonnage of 3,676,172 tons, an increase of 152 ships over 1931. Coasting vessels numbered 311, which was 28 less than in the previous year. The number of inland vessels in 1932 was 4,094, as compared with 4,000 in 1931.

The increase in trans-Atlantic shipping tonnage during the navigation season was directly due to the larger number of tramp ships which brought in coal and other bulk commodities.

The number and net registered tonnage of ocean-going vessels (trans-Atlantic and coasting combined) which came to the Port in the past few years were as follows:—

	Number	Net Reg. Tonnage
1929	1,283	4,637,800
1930	1,197	4,434,589
1931	1,150	4,069,421
1932	1,274	4,250,426

Tonnage of Merchandise Handled

Only twice in the history of the Port, viz. in 1927 and 1928, has the tonnage of import, export and domestic merchandise handled over the wharves of the Harbour of Montreal been greater than the total reached in 1932. For the fifth successive year, import tonnage set a new high record of 4,036,045 tons, which when compared with the figure of 1,421,295 tons in 1923, is an increase of 184% in this branch of the Port's activity in ten years. Export tonnage increased by 889,480 tons over the preceding year. Tonnage of local traffic was somewhat disappointing, having been less than for the past five years, and showing a decrease of 526,019 tons from 1931.

The growth in import tonnage is accountable for by important increases in tonnage of coal, gasoline, sugar, whiting, woodpulp, coke, vegetables, bananas and dried fruit. Increase in export tonnage was principally due to grain, raw fruit, copper bars, oil, bran, shorts, tar, flour, middlings, cured meats, automobiles and parts, and pitch.

The following statement shows the yearly division and total tonnage of merchandise handled in the Port during the past ten years:—

	Import tons	Export tons	Domestic tons	Total tons
1923	1,421,295	4,270,226	1,815,351	7,506,872
1924	1,472,933	5,594,310	1,918,346	8,985,589
1925	2,394,311	5,265,151	1,477,819	9,137,281
1926	2,028,162	4,549,835	2,632,702	9,210,699
1927	2,693,535	6,175,485	3,052,153	11,921,173
1928	2,543,685	6,838,108	3,207,333	12,589,126
1929	3,256,991	3,418,896	3,260,985	9,936,872
1930	3,376,182	3,101,561	3,210,026	9,687,769
1931	3,568,542	3,036,835	3,308,997	9,914,374
1932	4,036,045	3,926,315	2,782,978	10,745,338

Coal and Oil Receipts

The important part played by bulk cargo receipts of coal and oil in the Port's import business was demonstrated very clearly in 1932. More than 4,000,000 tons of these commodities were brought over the wharves of Montreal Harbour during the season of navigation under review. Imports of British coal reached a total never before approached in the Port's history. Receipts of British anthracite amounted to 1,118,287 tons, an increase of 38% over the previous year, and 33% greater than the previous largest total. Imports of British bituminous amounted to 215,804 tons, as compared with 36,668 tons in 1931.

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Classifications of coal and coke receipts by water during 1932 were as follows:—

Canadian bituminous	1,176,148	tons
British anthracite	1,118,287	"
British bituminous		66
German anthracite		66
United States bituminous		66
British coke	21,849	66
United States anthracite		66

Imports of oil and gasoline in 1932 were approximately as large as the record figure established in 1931.

Crude Oil	1,398,462	tons
Gasoline	165,974	66
Refined Oil	7,433	"

Grain Exports

Grain exports were maintained on a markedly more active basis during the season of navigation under review. The yearly total was greater than in any year since 1928, and resulted in an increase of approximately 23,000,000 bushels over the previous year.

In marked contrast to the substantial increase in grain exports from this port was the fact that shipments of grain from United States Atlantic and Gulf coast ports in 1932 were, in almost every instance, at the lowest scale for many years. The total export grain shipments from Montreal in the navigation season were approximately twenty-five million bushels greater than the combined figures for twelve of the leading United States ports, including New York, in the entire twelve months of 1932. The following statement gives the comparative figures:—

Montreal	112,893,600	bushels
New York	41,889,128	6.6
Galveston	14,323,762	6.6
Baltimore	7.129.222	66

New Orleans	5,671,081	bushels
Philadelphia	4,261,564	66
Boston	3,114,959	6.6
Portland, Me	2,804,000	66
Mobile	2,258,775	66
Albany	2,209,039	66
Houston	1,591,718	66
Newport News	1,424,000	66
Norfolk	913,000	66

Railway Traffic

In common with other railway systems all over the North American Continent, the Harbour Commissioners' railway department suffered severely from the general shrinkage in transportation activities during 1932. This branch of the Port's activities was the one most seriously affected by the current trade stagnation. Not since 1914 has the number of revenue cars handled on the Harbour lines been as low as during the year under review. Import and export rail traffic, however, did not show any appreciable decrease from 1931, the shrinkage in volume having been due to the decline in local traffic, particularly from industrial plants and in inter-change traffic. Increases were shown in the movement of rail-borne grain, foreign coal, and bananas.

New Works

Expenditure on capital account in 1932 was the smallest for many years, and consisted almost entirely of a group of small industrial wharves for oil importing companies to use, situated in the extreme Eastern section of the Port. Practically no expenditure on capital account was made for Harbour Sheds, railway tracks, or other features of the Port facilities.

SHIPPING

The season of navigation in 1932 opened on April 14th and closed on December 13th.

Shipping arrivals and departures were decidedly more active during 1932 than in recent years. The total number of Trans-Atlantic arrivals was 963, the largest number in any year since 1928, and an increase of 152 ships, or 19%, over 1931. Total ocean-going vessels (which includes Trans-Atlantic and Coasting) numbered 1,274, as against 1,150 in 1931. Inland vessels increased from 4,000 in 1931 to 4,094 in 1932.

Contributing to the satisfactory showing of ocean shipping trading to the Port during the season of navigation, were enlarged exports of grain, a new high figure for all time in imports of coal, and the maintenance at the previous year's high figure of bulk imports of oil.

Passenger services were well maintained during the year, and passenger carryings on the St. Lawrence route were satisfactory to the shipping companies concerned. The passenger ships and cargo liners handled a large proportion of the grain exports and general cargo movement, while the tramp vessel tonnage which arrived at the Port in 1932 was mainly engaged in bringing in coal, and in taking out grain. Many new oil tankers were visitors to this Port during the year.

During the month of November, 1932, the Harbour presented a picture of such unwonted activity in these recent years that Port officials were forcibly reminded of the pre-depression era. On several days late in November there were ships working cargo at every berth in the Port, from the West end of Windmill Point basin to the newest oil wharves at Montreal East. In virile contradiction of an impression which seems to be fairly generally held, that the season of navigation at Montreal closes shortly after the middle of November (an opinion which



VIEW OF THE HIGH-LEVEL SHORE WHARVES TAKEN IN NOVEMBER SHOWING VESSELS UNLOADING COAL AT EVERY BERTH.

is evidently strongly held by the marine insurance underwriters), was the interesting fact that on November 23rd, 1932, there were 53 ocean ships in the Port of Montreal, all loading or unloading cargo. As a matter of fact, on only one occasion in the last 10 years has the closing of navigation at this Port been earlier than December 10th (viz. Decr. 6th, 1926), while in 1927 and 1928 the Port was open and free from ice until the early days of January.

November was, in short, the busiest month of the entire season of navigation. In addition to regular scheduled arrivals and departures of passenger and freight liners, 54 ships arrived with full cargoes of coal, bringing in approximately 400,000 tons of this commodity, and 15 oil tankers were unloaded, containing 166,319 tons of oil. Shipments of grain in November amounted to 17,558,410 bushels. The combined tonnage of imports of coal and oil, and exports of grain, for the month in question represents a daily average of 28,766 tons.

The first ship into port in 1932 was the "S.S. Silvia" of Furness Withy Co. Ltd. which berthed at Shed 17 on April 14th. The first Trans-Atlantic ship to reach port was the "S.S. Beaverburn" of Canadian Pacific Steamships Ltd. which arrived on April 18th. The master of this fine freighter, Capt. E. Landy, was presented with the Commissioners' time-honoured trophy, the gold-headed cane. One of the last ships into port was the "S.S. Port Alfred", which arrived from Grangemouth with 6,600 tons of anthracite. Her cargo was discharged in 33 hours, after which this ship loaded a full cargo of grain, and sailed $3\frac{1}{2}$ days after her arrival in port.

Several excellent grain loading performances were noted during 1932. The "S.S. Warlaby" took 308,203 bushels of wheat in six hours on October 4th, which is claimed as a record for this Port. The "S.S. Anglo-African" loaded 352,000 bushels of No. 2 Northern wheat at Elevator "B" on August 26th in 7½ hours. Two

fine loading performances took place on September 29th, when the "S.S. Anglo-African" and "S.S. Langleefjord took aboard 625,270 bushels of wheat in 9 hours. Three other good examples of the celerity with which grain can be delivered to steamers at Montreal occurred on July 18th, when "S.S. Janeta" loaded 313,605 bushels in 9 hours 40 mins.; July 29th, when "S.S. Themisto" loaded 299,834 bushels in 8 hours; and November 2nd, when "S.S. Ashworth" loaded 279,000 bushels in 8 hours.

The Vancouver - St. Lawrence Line for which Furness Withy Co. are agents inaugurated a service between Canadian Atlantic and Pacific ports with the arrival on July 26th of the "S.S. Forafric" from Vancouver. The Newfoundland Canada Steamships Ltd. placed a fine new ship on the Montreal - Newfoundland run, the "S.S. Belle Isle". Following the reorganization of the Royal Mail group of shipping companies, Elder Dempster & Co. Ltd. which has been operating a regular passenger and freight service from Montreal to South Africa for the past thirty years, became known as Elder Dempster Lines Ltd. An interesting feature of this company's cargoes in 1932 was the first consignment of South African wine for consumption in the Province of Quebec.

Other interesting features of the year's shipping activities were as follows: — A full cargo of linseed arrived on April 29th; Seven cargoes of African corn were brought to the Port during the season; four cargoes of crude oil from Batoum, Russia were discharged in the Harbour in 1932; the "S.S. Schleswig Holstein", which is fitted exclusively for carrying automobiles, loaded a full cargo in July ex the "S.S. Tractor" from Detroit; the "S.S. El Grillo" took a full cargo of pitch from Montreal to France on September 12th, this being the first bulk shipment of this commodity from Montreal; several shipments of soya beans were made through the Commissioners' grain elevators, destined to various Eu-

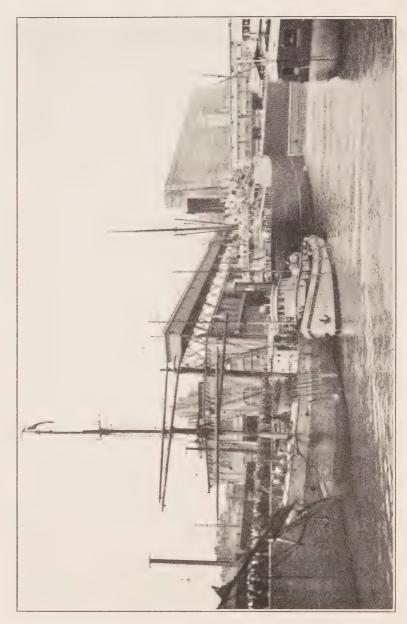
ropean ports; the "S.S. Kem" arrived on October 11th with a cargo of Argentine meat; the "S.S. P. Madsen" took out a full cargo of copper wire in November for Southampton; the "S.S. Rushpool" arrived on July 1st with a record cargo of coke, 5,600 tons, from the Tyne; the Harbour was host during the season to two British warships, two Canadian warships, and one French sloop of war,

Admiral Richard Byrd's famous Antarctic Expedition ship, the Brig "City of New York", arrived in the Harbour on July 11th in tow of the Norwegian steamer "Dago" from New York. This vessel berthed at Section 12 for a few hours prior to proceeding up the Canals to Chicago, where she will be a feature exhibition of the 1933 World's Fair in that city.

The Lachine Canal was opened to traffic on April 28th, and was again closed to traffic at midnight on December 10th. Rates on grain from the Head of the Lakes to Montreal were completely disorganized during the beginning of the navigation season, and at one time during the season carriers were receiving as little as $3\frac{1}{2}$ c a bushel from Fort William to this port. Subsequently a minimum of $4\frac{3}{4}$ c was established, and in the Fall the rate reached 7c.

The long anticipated opening of the new Welland Canal took place on August 6th, and the first ship through was the "S.S. Lemoyne", carrying a record cargo of 575,000 bushels of wheat, which was unloaded at the Kingston elevator, thus making maritime history on the Great Lakes. The "Lemoyne" is the largest ship on the Lakes, being 633 ft. long, with 70 ft. beam, and gross register tonnage of 10,480 tons.

During the season of navigation, fifty-three small foreign vessels passed through the Harbour with cargoes of coal, woodpulp, clay, pebbles and general merchandise for the Great Lakes.



Contrast between sail and steam. Admiral Byrd's famous barque "City of New York" photographed at Section 12, close to a large modern ocean liner.

British shipping was again responsible for the greatest number of vessels and the greatest aggregate tonnage in 1932. The statement of nationalities of ships this year, for the first time, shows vessels of Canadian register separately from those of British register, and it will be of interest to note that the number of Canadian ships and aggregate of Canadian tonnage is only exceeded by those of British registry. Norway takes third place with 201 ships Following in order are Italy, Denmark, Sweden, Germany, United States, Holland and France.

The total number of passengers reported by the Trans-Atlantic companies as having sailed from and arrived at Montreal is 77,104 in 1932, a decrease of 14,010 from 1931. The Eastbound total shows an increase of 2,492 over the previous year, while the Westbound figures are responsible for the whole of the total decrease. It must not be forgotten that the Westbound totals do not take into account passengers who disembarked at Quebec. Severe decreases were experienced in passenger carryings by the companies engaged in coastal services, and by the inland vessels of the Canada Steamship Lines.

The following statement shows the classifications of ocean-going vessels which arrived at Montreal during the navigation season of 1932:—

		Net
	Number	Registered
	of Ships	Tonnage
British passenger liners	107	1,052,063
British freight liners	152	610,814
British coasting — coal	123	401,514
British tramps — coal	143	374,177
Foreign tankers	64	272,278
Foreign freight liners	99	247,844
British tankers — ocean	46	183,805
British tramps — in ballast	57	171,857
Canadian tankers — ocean	27	157,549

Canadian freight liners Foreign tramps — coal Foreign tramps — various cargoes Canadian passenger liners Canadian coasting — passenger British tramps — various cargoes Canadian coasting — general Foreign tramps — in ballast British coasting — passenger Canadian tankers — coasting Foreign coasting — general Canadian warships British warships	Number of ships 48 68 84 16 52 22 90 25 18 8 12 2	Net Regd. Tonnage 151,647 139,907 127,549 79,016 58,596 57,238 54,467 47,315 34,434 10,252 8,743 3,200 2,735
		,
_	_	
	1,274	4,250,426

The following table gives types of cargoes carried by vessels to and from the Harbour during the navigation season of 1932:—

Inward Cargoes

General	529	2,232,114
Coal	323	910,152
Crude oil and gasoline	128	600,679
Ballast	126	260,855
Woodpulp	38	43,103
Sugar	35	67,405
Coal in transit	17	12,833
Gypsum	13	16,235
Maize		22,114

		Net
	Number	Regd.
	of ships	Tonnage
Crude Sulphur	7	19,974
Lumber	6	6,497
Potatoes	5	4,440
Molasses	4	8,456
Blending concentrates	4	3,728
Phosphate rock	3	7,109
Oyster Shells	3	4,952
Steel	3	3,844
Pulpwood	3	2,125
China Clay	3	2,070
Fertilizer	2	2,996
Nitrate of Soda	2	2,309
Naphtha Spirits	1	3,732
Linseed	1	2,670
Wire nails	1	1,327
Pebbles	1	690
Clay	1	671
Steel rails	1	666
Salt	1	375
Outward Cargoes		
Grain and General	333	1,848,771
General only	273	465,005
Grain only	225	617,256
Miscellaneous, in ballast	148	279,641
Oil Tankers, in ballast	136	611,586
Coal boats, in ballast	116	378,286
Cement	10	13,910
Oil and gasoline	9	7,980
Automobiles and parts	4	5,883
Flour	2	1,507
Grain and Logs	1	3,039
Logs	1	2,271
Copper Wire rods	1	1,071
Coal in transit	1	933

PORT OF MONTREAL

Statement showing the Nationalities and Tonnage of Sea-Going Vessels that arrived in the Port during the Season of 1932, which were navigated by 72,269 seamen.

Nationality	Number of Vessels	Net Tonnage
British	678	2,893,241
Canadian	241	513,171
Norwegian	201	452,082
Italian	31	100,154
Danish	26	53,787
Swedish	26	39,869
German	21	52,031
American	18	55,489
Dutch	17	55,167
French	12	28,721
Greek	1	2,721
Portuguese	1	2,024
Esthonian	1	1,969
	1,274	4,250,426

PORT OF MONTREAL

Statement showing the Classification of Trans-Atlantic Vessels that arrived at the Port of Montreal during the past ten years.

	<i>0</i> ,	Steamships		Schooners		Total
Year	No.	Net registered Tonnage	N. o.	Net registered Tonnage	No.	Net registered Tonnage
1923.	892	3,221,781			892	3,221,781
1924	186	3,597,031	1	116	988	3,507,147
1925.	1,040	4,744,793			1,040	4,744,793
1926	1,042	3,551,489		:	1,042	3,551,489
1927	1,231	4,252,325		:	1,231	4,252,325
1928	1,222	4,693,925	:	:	1,222	4,693,925
1929	916	3,910,679	:	:	916	3,910,679
1930	826	3,740,884	:	:	826	3,740,884
1931	811	3,425,107	:	:	811	3,425,107
1932	963	3,676,172	:	:	963	3,676,172
		_				

PORT OF MONTREAL

Statement Showing the Classification of Vessels that Arrived in the Port of Montreal during the past ten years from Lower St. Lawrence Ports, the Maritime Provinces and Newfoundland.

		Steamships		Schooners		Total
Year	No.	Net registered Tonnage	S.	Net registered Tonnage	No.	Net registered Tonnage
1923	187	461,645	3	294	190	461,939
1924	231	498,903	4	282	235	499,185
1925	215	359,520	:	:	215	359,520
1926.	379	670,241	:	:	379	670,241
1927	379	740,161	:	:	379	740,161
1928.	385	800,137	:	:	385	800,137
1929.	367	727,121	:	:	367	727,121
1930	371	693,705		;	371	693,705
1931	339	644,314	:		339	644,314
1932	311	573,954			311	573,954

PORT OF MONTREAL

Combined Statement Showing the Number and Net Registered Tonnage of Ocean Vessels that arrived at the Port of Montreal during the past Ten Years.

Year	TRANS	TRANS-ATLANTIC	MA PROVI NEWFO	MARITIME PROVINCES AND NEWFOUNDLAND		TOTAL
	Vessels	Net registered Tonnage	Vessels	Net registered Tonnage	Vessels	Net registered Tonnage
	892	3,221,781	190	461,939	1,082	3,683,720
	886	3,597,147	235	499,185	1,223	4,096,332
1925	1,040	4,744,793	215	359,520	1,255	5,104,313
1926	1,042	3,551,489	379	670,241	1,421	4,221,730
	1,231	4,252,325	379	740,161	1,610	4,992,486
	1,222	4,693,925	385	800,137	1,607	5,494,062
	916	3,910,679	367	727,121	1,283	4,637,800
	826	3,740,884	. 371	693,705	1,197	4,434,589
	811	3,425,107	339	644,314	1,150	4,069,421
1932	963	3,676,172	311	574,254	1,274	4,250,426

During 1932, 4,094 inland and river vessels arrived at the Port, having a net registered tonnage of 3,755,442 tons.

PORT OF MONTREAL

Statement showing the dates of the Opening of Navigation and the Closing thereof, the First Arrival and the Last Departure for Sea; also the greatest Number of Vessels in the Port at one time, during the past ten years.

:			_	_	_	_		_	_	_		ਚ
ort		Date	4th	17th	6th	7th	1st	13th	7th	12th	31st	2nd
Greatest number of Vessels in Port at one time.	Inland	Da	Aug.	June	Oct.	Sept.	May	Aug.	Oct.	Sept.	Oct.	May
of Vess		No.	52	43	46	99	44	43	47	41	29	49
umber of Ves at one time.	0.6	Date	23rd	4th	19th	19th	20th	19th	3rd	14th	27th	23rd
atest ni	Sea-Going	Da	May	Nov.	Aug.	May	Oct.	Nov.	July	May	3	Nov.
Gre	Š	No.	63	80	62	09	80	61	53	20	53	53
	st rture Sea		1st	3rd	8th	6th	6th	9th	7th	12th	11th	7th
	Last Departure for Sea		Dec.	9.9	"	9.9	9.9	"	9.9	"	"	99
	st val Sea		3rd	24th	16th	3rd	12th	26th	20th	21st	15th	18th
	First Arrival from Sea		May	April	9.9	May	April	"	99	3	3	99
	ing f ation		18th	12th	10th	6th	4-28	6-59	10th	12th	13th	13th
	Closing of Navigation		Dec.	9.9	22	7.7	Jan.	99	Dec.	3	3	33
	uing ation		29th	18th	10th	2nd	10th	26th	10th	12th	19th	14th
	Opening of Navigation		April	33	33	May	April	9 3	33	3	March 19th	April
	Vear				2	9		3)	:	
			1923	1924	1925	1926.	1927	1928	1929	1930	1931	1932

GRAIN ELEVATOR SYSTEM

For the first time since 1928, deliveries of grain from the Harbour Commissioners' grain elevator system exceeded one hundred million bushels during the year 1932. The exact total was 112,893,600 bushels, an increase of more than 23,000,000 bushels over 1931, or 26%. Deliveries of grain for the past four years have been as follows:

1929	90,694,208 bushels
1930	81,669,864 "
1931	89,512,312 "
1932	112,893,600 "

The outward flow of grain commenced somewhat earlier than usual, in April, and deliveries for that month reached a total of 5,675,655 bushels, which was the largest quantity of grain ever shipped from the Port in April. Thereafter, exports continued at a steady rate throughout the entire season, reaching their maximum in November. Monthly grain deliveries during the season of navigation in the past two years were as follows:—

	1932 bushels	1931 bushels
April	5,675,655	2,930,910
May	16,993,625	24,136,527
June	15,768,069	12,066,648
Julý	12,208,524	8,468,346
August	11,740,943	6,279,056
September	14,356,889	8,005,531
October	14,169,708	10,794,779
November	17,558,410	13,599,013

Grain deliveries from each of the Commissioners' four elevators in 1931 and 1932 were as follows:—

				1932 bushels	1931 bushels
Grain	Elevator	No.	1	31,954,295	26,645,045
66	66	6.6	2	30,226,405	26,990,167
"	66	6.6	3	26,243,009	21,390,581
"	66	66	"B"	24,469,891	14,486,519
				112,893,600	89,512,312

The outstanding increase in the year's grain deliveries was recorded by wheat. Almost 80,000,000 bushels of this commodity were shipped from the elevators, an increase of about 27,000,000 bushels over 1931. Deliveries of rye increased by more than 5,000,000 bushels. Shipments of barley were less by some 9,000,000 bushels. The various grains comprising total deliveries for the past two years were as follows:—

	1932	1931
	bushels	bushels
Wheat	79,678,804	52,736,669
Barley	10,201,501	19,615,312
Oats	9,359,299	9,761,122
Rye	8,293,349	2,756,138
Corn	4,014,950	3,894,357
Flax	600,163	641,996
Soya Beans	590,843	
Buckwheat	154,691	105,525

The shipment of soya beans was a new development, and one which was regarded with considerable interest. Germany took 281,996 bushels of this commodity, Holland imported 202,923 bushels, and Great Britain was represented by 60,686 bushels. These beans have a small hard grain, and were handled by the marine legs and conveyor machinery of the elevators to the complete satisfaction of the shippers.

Approximately 20,000,000 bushels more grain was received at the elevators in 1932 than in the previous year. Of this additional business for the inland carriers, vessels handled approximately 17,0000,000 bushels, and railways approximately 3,000,000 bushels, thus preserving the proportion of water-borne grain out of the total receipts at 89% viz.

Year	No. of Vessels	Bushels	No. of Cars	Bushels	Percentage of total by water
1929	855	69,800,508	11,618	20,628,281	78%
1930	848	75,362,566	2,178	4,199,854	95%
1931	855	80,660,388	4,503	8,775,326	90%
1932	1,098	97,583,700	6,236	11,580,644	89%

The most active day through the season in the grain elevator system was May 9th, when receipts amounted to 1,092,468 bushels, and deliveries to 1,145,394 bushels, a total day's handling of 2,237,862 bushels. On sixteen different days during the season, deliveries exceeded one million bushels, the greatest having been on November 28th, when 1,377,648 bushels were delivered to ocean vessels. On six different days receipts exceeded one million bushels, the largest day having been on June 3rd. On thirty-seven days, combined receipts and deliveries were in excess of 1,500,000 bushels. A few of the outstanding days were as follows:—

				Total
		Receipts	Deliveries	Handling
		bushels	bushels	bushels
May	9	1,092,468	1,145,394	2,237,862
May	12	939,203	1,131,978	2,071,181
	29	1,072,179	945,021	2,017,200
	17	723,889	1,239,631	1,963,520
01	7	764,725	1,192,813	1,957,538
	10	1,029,858	899,482	1,929,340
	28	1,019,118	903,616	1,922,734
	30	828,165	1,057,425	1,885,590
	3	1,240,368	591,714	1,832,082
	7	672,569	1,130,879	1,803,448
	28	414,771	1,377,648	1,792,419



Another view of the Antarctic ship "City of New York" entering the Lachine Canal—Elevator "B" in background.

Once again Great Britain was the largest market for Canadian grain shipped through the Port of Montreal. Holland and Belgium were also very important customers, and in all, fifteen different countries are represented in the list of destinations of the grain exports from this Port during 1932:—

	1932 bushels	1931 bushels
Great Britain	34,663,970	21,387,406
Holland	22,353,107	13,831,619
Belgium	14,362,023	12,087,269
France	6,477,669	6,220,052
Germany	5,811,325	9,652,643
Italy	3,491,428	4,604,001
Norway	2,279,684	1,794,042
Denmark	1,843,332	2,811,950
Sweden	1,579,708	810,119
Spain	1,072,616	
Irish Free State	927,403	1,411,229
Northern Ireland	390,570	464,514
Greece	277,000	1,375,330
Finland	95,949	

A marked contrast in the quantities of grain arriving at the elevators for winter storage was experienced during the last two weeks of the navigation season when compared with a similar period in any of the last seven or eight years. Where, formerly, the canals leading to Montreal were crowded with shipping, and the elevators were working overtime attempting to unload all grain offering for storage, the start of the winter season of 1932-33 saw the elevators with only 7,000,000 bushels of grain in store, as compared with more than 13,000,000 bushels in previous winters. In view of the fact that winter storage rates at Montreal are lower than at any other point in Canada, it is difficult to understand why the owners of grain have chosen this year to keep their grain at points

far removed from seaboard, at greater expense, while leaving six or seven million bushels of storage space idle at Montreal. The situation makes an interesting commentary on the campaign which has been strenuously advocated for some years past by grain owners and other allied interests to have grain storage facilities at Montreal considerably increased.

SUMMARY OF GRAIN HANDLING ELEVATORS 1, 2, 3 and "B",—1932

Month	C.N. Cars	C.P. Cars	Total Cars	Ves- sels	Receipts Bushels	Deliveries Bushels
January	14		14		23,828	670.611
February	15	38	53		82,546	381.030
March	4	5	9		14,115	677,708
April	878	701	1.579	31	5,814,844	5,675,655
May	373	317	690	195	19,228,259	16,993,625
June	101	202	303	171	15,536,196	15,768,069
July	132	102	234	133	12,166,714	12,208,524
August	38	63	101	143	12,887,522	11,740,943
September.	27	126	153	153	13,950,471	14,356,889
October	459	626	1,085	148	14,787,743	14,169,708
November.	1,308	596	1,904	108	13,344,759	17,558,410
December .	111		111	16	1,327,347	2,692,428
Total	3,460	2,776	6,236	1,098	109,164,344	112,893,600

HARBOUR COMMISSIONERS OF MONTREAL

Summary of Grain Handling, Elevators Nos. 1-2-3 and "B", 1932.

	Receipts	Deliveries
Month	Bushels	Bushels
January	23,828	670,611
February	82,546	381,030
March	14,115	677,708
April	5,814,844	5,675,655
May	19,228,259	16,993,625
June	15,536,196	15,768,069
July	12,166,714	12,208,524
August	12,887,522	11,740,943
September	13,950,471	14,356,889
October	14,787,743	14,169,708
November	13,344,759	17,558,410
December	1,327,347	2,692,428
Total	109,164,344	112,893,600
Receipts		Deliveries
Bushels		Bushels
Water 97,583,700	Steamer Cars	, ,
Rail	Waggon	
	11 25501	
Total 109,164,344		112,893,600
First Vessel Unloaded	A _]	pril 28th, 1932.
Last Vessel Unloaded	D	ecember 7th, 1932.
1,098 Vessels		7,583,700 Bushels.
3,460 C.N. Cars 2,776 C.P. Cars } 6,236 Cars		1,580,644 "
Total	10	09,164,344 Bushels.

SUMMARY OF GRAIN RECEIPTS, ELEVATORS 1-2-3 and "B", 1932.

	~	1		100		1	-		
Month	WHEAT	OATS	BARLEY	CORN	RYE	FLAX	BUCK- WHEAT	OTHER	TOTAL
January. February. March. April. May June.	18,796 69,042 7,796 5,275,458 11,818,062 11,884,677 7,774,640	1,157 8,882 5,221 115,977 889,506 809,840 457,486	293,826 2,447,851 1,701,631 1,326,244	4,622 1,098 272,804 30,460 54,882	112,484 3,574,544 947,279 2,415,127	31,665	3,875	218,543 130,644 43,339	23,828 82,546 82,546 14,115 5,814,844 19,228,259 15,536,196 12,536,196
September October November December	11,914,107 10,743,337 7,395,717 960,559	1,173,727 1,173,727 1,168,608 1,111,492	732,248 732,248 845,085 547,434 135,097	920,518 3,752,130 52,055	54,841 222,114 106,343	75,548 99,671 258,399 25,999	79,242 37,502 11,980	78,626	13,950,471 14,787,743 13,344,759 1,327,347
Total	77,385,483	098,61		5,141,644	1-	643,167	156,647	1	109,164,344
	SUMMARY	OF	GRAIN DEI	DELIVERIES,	- 1	ELEVATORS 1-2-3	3 and "B"	', 1932	
Month	WHEAT	OATS	BARLEY	CORN	RYE	FLAX	BUCK- WHEAT	OTHER	TOTAL
January February March April	120,364 82,652 265,268 3,447,993	141,776 145,725 209,698 558,722	228,359 43,250 61,288 938,867	94,872 57,543 122,654 80,951	30,000 36,000 18,000 648,758	51,050	4,190 439 800 364		670,611 381,030 677,708 5,675,655
May June July	11,113,179 10,530,035 7,901,933	1,430,497 587,279 675,855	2,101,510 2,182,765 1,213,896	214,013 97,807 139,932	1,892,199 2,249,605 2,096,842	31,665	23,684	218,543 88,913 85,070	16,993,625 15,768,069 12,208,524
August September October November	8,289,827 12,155,345 10,214,764 13,356,216 2,201,228	1,102,096 1,219,633 1,998,862 1,210,858 78,298	1,417,721 505,289 876,017 602,577 29,962	183,514 82,770 736,462 1,961,987 242,445	045,959 300,129 210,571 151,286 14,000	12,300 93,723 79,104 136,346 85,558	53,928 60,514 10,772	89,520 78,626 30,165	11,740,943 14,356,889 14,169,708 17,558,410 2,692,428
Total	79,678,804	9,359,299	10,201,501	4,014,950	8,293,349	600,163	154,691	590,843	112,893,600

STATEMENT SHOWING DESTINATION OF EXPORT GRAIN - 1932 (Bulk Grain Deliveries Direct to Vessel) (Bushels)

TOTAL	158,525 14,362,023 1,843,332 95,949 6,477,669 5,811,325 34,663,970 22,331,107 22,331,107 390,570 3491,428 2,279,684 1,072,616 1,579,708 9,777,696
FLAX	27,921
BUCK- WHEAT	22,563
SOYA BEANS	281,996 60,686 202,923
CORN	30,460 290,642 163,639 60,000 1,511,324 65,183
RYE	1,527,735 755,458 57,605 694,563 86,236 3,655,303 3,655,303 376,800 376,879 574,750 8,112,529
BARLEY	1,157,300 100,000 108,000 249,940 4,723,203 2,914,252 2,914,252 29,161 4,286 77,143
OATS	25,188 4,184,622 1,410,608 38,824 169,409 32,709 327,869 7,097,119
WHEAT	158,525 10,715,338 697,538 95,949 6,264,313 4,421,187 25,549,223 277,000 12,552,105 876,079 192,000 3,446,433 1,903,684 1,072,616 1,202,829 8,732,751
COUNTRY	Algeria Belgium Belgium Belgiumark Finland France Germany Greece Holland Irish Free State Ireland (North) Irelany Norway Spain Sweden Unknown

HARBOUR RAILWAY TERMINALS

For the first three months of the year, when the Port is closed to shipping, operations on the Commissioners' railway system were on a smaller scale than in any recent year. The decrease in car handling for this period was about 12% as compared with 1931. In general, the widespread reduction in transportation activities was responsible for this condition on the Harbour terminals. However, two particular causes also contributed to the decrease, viz. the Canadian Pacific Railway did not use Harbour sheds on King Edward Pier during the winter months of 1931-32 for handling import freight from West Saint John, and the Canadian National Railways practically discontinued the routing of rail shipments from their Western to their Eastern terminals over the Harbour tracks, resulting in both trunk lines making less use of the Harbour railway facilities than in past winter seasons. There was, however, during this period an increased movement of car grain from the Commissioners' elevators to Eastern Atlantic ports and local points which reached relatively large proportions. This movement, with shipments of coal, Westbound interchange traffic and industrial freight (both of the latter being on a much reduced scale) made up the Winter operations.

The season of navigation opened somewhat earlier than usual, and was accompanied by a comparatively heavy movement of car grain, which gave an appearance of unusual activity to the first few weeks of the Summer season. The advantage thus gained was quickly dissipated, however, as all subsequent months showed returns at a level below the previous year, with the extreme low in August. Scanning past returns for comparison, it is necessary to go back to the year 1921 to find railway traffic conditions on the Harbour tracks at such a low level as was reached in 1932. How vitally the business of the Commissioners' railway department was affected by

the general conditions of rail transportation is clearly evident from the fact that not since 1914 has the number of revenue cars received on the Harbour terminals been less than this year. It is equally worthy of record, however, to note from the analysis of traffic returns that import and export rail traffic did not show any appreciable decrease from last year, the shrinkage in volume having been due to the decline in local traffic, particularly from industrial plants and in inter-change traffic.

Increases in the movement of rail-borne grain, foreign coal and bananas were recorded as compared with last year. The export cattle traffic, which gave expectations of exceeding the satisfactory figures of 1931, after moving at a steady volume for the forepart of the season, dwindled away to practically nothing in the last week of August, following which only a few shipments were received. There were 635 cars of cattle handled during the year as compared with 972 in 1931.

The total number of cars received and forwarded for the year amounted to 164,060, a decrease of 21,095 cars or 12% from last year, and a decrease of 34% from the peak year in 1925.

The most rigid measures of economy were enforced in the operation of the railway department during the year, with the result that operating cost figures were 15% less than in 1931. Decrease in revenue for the same period amounted to 13%.

Due to the smaller tonnage of trains, and the volume of traffic moving from sidings which are not electrified, it was found more economical to use the steam locomotives more frequently than the electric locomotives. Total number of locomotive hours operated during the year was 20,543, made up of 12,555 steam and 7,978 electric. During the year the electric locomotives travelled 23,394 miles.

The following table gives the mileage of Harbour railway tracks, with the number of cars handled during the past ten years:—

	Mileage	Number
	of Harbour	of cars
	Railway	handled
1923	. 60.64	216,382
1924	. 63.24	225,377
1925	. 63.55	251,586
1926	. 65.19	205,481
1927	. 67.44	195,853
1928	. 67.99	240,622
1929	. 68.42	242,967
1930	. 69.28	205,082
1931	. 69.60	185,155
1932	. 69.55	164,060

The extent of the Harbour Commissioners' railway tracks at the end of 1932 is as follows:—

South of Lachine Canal, Bickerdike Pier, Windmill Point Wharf and West	Lin. Ft. 50,264	Miles 9.5197
To Guard Pier	10,400	1.9697
Sections 12 to 46, High Level, Main Line	57,079	10.8104
To Piers, Elevators, Crossovers and Sidings, etc	130,184	24.6560
Sections 35 to 46, Low Level, Main Line	10,080	1.9091
Sections 46 to 101, High Level, Main Line	54,134	10.2526
To Wharves, Industries, etc	52,801	10.0000
At South Shore, St. Lambert,	2,300	0.4356
Grand Total Tracks, end of 1932	367,242	69.5531
Grand Total Tracks, end of 1931	367,492	69.6006
Decrease in 1932	250	0.0475

COLD STORAGE WAREHOUSE

The operations of the Commissioners' Cold Storage Warehouse for the year 1932 were somewhat more encouraging than during the previous year. An increased total of merchandise was stored in the warehouse as compared with the preceding year, resulting in a somewhat more satisfactory balance sheet for the twelve months of 1932. Revenue for the year was greater by about 7% than in 1931, while operating cost was slightly less in 1932 than in the previous year.

Appreciable increases were noted during the year in the storage of fish, apples and celery, with slight gains in tea and eggs. Other commodities of which important quantities continued to be warehoused were meat, poultry, nuts, onions, butter, cheese, potatoes, hops, furs, raw cotton and grapes.

The quiet state of business generally during the year resulted in purchases of perishable merchandise continuing to be confined practically to actual requirements in order to eliminate as much as possible the necessity for storage.

The Warehouse provides excellent service and the most modern facilities to its many customers, and the Commissioners believe that when business returns to normal, this well-equipped plant will be favoured with a large share of the city's export and local storage trade.

HARBOUR POLICE DEPARTMENT

The Harbour Commissioner's police department, which maintains day and night patrol along the entire length of the Harbour front, from Windmill Point in the West end to Montreal East, enforcing order and safeguarding life and property within the Port, carried out its usual duties during 1932.

During the season of navigation the force consisted of a chief, three captains, and forty-four constables. During the winter season of 1932-33, twenty-six constables were retained on duty. These men were laid off one day each week, to give the remaining seventeen men an opportunity of working at least two days each week instead of being laid off for the winter.

During the year 126 arrests were made on the Harbour and on the Montreal Harbour Bridge, including 62 for various offences, 25 for major traffic violations, and 39 for minor traffic violations. Fifteen deaths occurred on the Harbour during 1932, exclusive of the disastrous explosion at Canadian Vickers Drydock on June 17th. One hundred and sixty four accident cases were given first aid by the police department.

Carters to the number of 4,908, loading and delivering merchandise at various points along the waterfront, were checked by the traffic constables. Taxis to the number of 4,458 were checked on the arrival and departure of passenger vessels.

The police car covered 26,212 miles during the year. The two motorcycles used on the Harbour Bridge covered 37,589 miles.

COMMODITY TONNAGE STATEMENT

The combined tonnage of import, export and domestic merchandise handled at the Harbour of Montreal in 1932 was 10,745,338 tons.

This total represents an increase of 830,964 tons over the previous year. Exports were greater by 889,480 tons, imports increased by 467,503 tons, while domestic commodities decreased by 526,019 tons.

It is interesting to note that the total for the year has only been exceeded twice in the port's history, in the banner years of 1927 and 1928, when exports were more than 6,000,000 tons, due to the large shipments overseas of Canadian grain.

Two outstanding features of the season's commodity movements present themselves for comment. First, the major portion of the gains in both exports and imports are due to bulk cargo commodities. Secondly, the tonnage of imports was the largest ever received, by a considerable margin, and the total inward tonnage marks the fifth successive year of substantial increase in this respect. The steady growth of import tonnage for the past five years is shown by the following figures:—

1928	2,543,685	tons
1929	3,256,991	6.6
1930	3,376,182	"
1931	3,568,542	6.6
1932	4,036,045	6.6

The following comparative statement shows the division of tonnage of merchandise for the past three years:—

Imports Exports Domestic	1930	1931	1932
	tons	tons	tons
	3,376,182	3,568,542	4,036,045
	3,101,561	3,036,835	3,926,315
	3,210,026	3,308,997	2,782,978
Domestic	9,687,769	9,914,374	10,745,338

The most notable increases in imports were:—anthracite coal (429,323 tons), bituminous coal (131,843 tons), gasoline (33,559 tons), raw sugar (29,827 tons), whiting (24,581 tons), woodpulp (23,520 tons), coke (21,495 tons), skelps (13,312 tons), raw vegetables (9,275 tons), bananas (8,816 tons), oyster shells, a new development (8,683 tons), and dried fruit (7,121 tons). Decreases were noted in corn, crude oil, phosphate, sand, and steel sheets, while iron and manganese ore, of which 21,688 tons and 25,136 tons respectively were handled in the previous year, do not appear in the list for 1932 at all.

The most important increase in exports was a gain of 827,303 tons in grain. New outward business was represented by 16,695 tons for two cargoes of oil, 7,611 tons for a cargo of tar, and 3,472 tons for a cargo of pitch. Other important increases in exports were:—raw fruit (22,849 tons), copper bars (22,112 tons), bran (14,735 tons), shorts (8,807 tons), flour (6,883 tons), middlings (6,828 tons), cured meats (5,849 tons), automobiles and parts (5,791 tons), and smaller gains in cheese, ship stores, copper ingots, liquors, cereals, milk in tins, and rubber manufactures. There were decreases in Acetic acid, animal foods, butter, cattle, catsup, cement, lard, rolled oats, oilcake and paper.

The domestic tonnage total was the lowest for the past five years, with decreases in bituminous coal (200,887 tons), grain for local delivery (148,048 tons), cement (52,773 tons), crushed stone (47,124 tons), crude oil (33,271 tons), gypsum (30,037 tons), sand (27,198 tons), rubble stone (16,963 tons), and steel billets and blooms (14,283 tons). There were also smaller decreases in bran, cheese, flour, galvanized sheets, iron pipe, lard, printing paper, scrap steel, shorts, steel bars and rails, structural steel, molasses, refined sugar and vegetables. There were increases in gasoline (114,169 tons), and fuel oil (65,695 tons), as well as in fish in tins, flax, hay and wood pulp.

The following are the quantities of the more important commodities included in the Domestic Tonnage list:—

Bituminous coal	1,179,332	tons
Gasoline	357,812	44
Fuel oil	341,091	"
Crude oil	218,545	"
Grain for local delivery	114,469	4.6
Cement	68,073	6.6
Refined sugar	55,886	4.4
Lubricating oil	48,426	4.6
Lumber	35,693	4.6
Sand	25,556	"
Gypsum	28,333	6.6
Crushed stone	23,957	6.4
Anthracite coal	23,497	4.6
Flour	23,323	+ 6
Raw vegetables	10,838	4.6
9	/	

The extent of the movement of the principal import and export commodities can be gauged from the following comparative lists:—

PRINCIPAL IMPORTS

Petroleum Oil	1,345,084	tons
Anthracite Coal	1,172,798	6.6
Raw Sugar	250,531	6.6
Bituminous Coal	249,909	6.6
Gasoline	161,129	6.6
Woodpulp	106,517	6.6
Steel Plates, Sheets, Skelps, etc	66,316	6.6
Corn	57,012	6.6
Bananas	42,498	6.6
Sulphur	34,158	4.4
Fruit	31,755	6.6
Whiting	30,939	6.6
Salt	24,302	6.6
Dry Goods	22,215	6.6

Molasses 21,741 Tin Plates 20,072 Phosphate 18,590 Toys 17,080 Iron Sheets, Bars, Skelps, etc. 15,074 Glass Sheets 13,726 Flax Seed 11,118 Tea 9,555 Oyster Shells 8,789 Sand 8,459 Glassware 8,359 Binder Twine 8,213 Fire Bricks 7,905 Muriate of Potash 7,459 Earthenware 7,072 Potatoes 6,708 Vegetables 6,332 Superphosphates 5,886 Intoxicating Liquors 5,884 Yarns 5,877 Garden Bulbs 5,608 Paper, various 5,182 Cocoa Beans 5,182 Jute Cloth 5,078 Edible Nuts 4,698 Wool 4,759 Cocoonuts 4,698 Machinery 4,484 China Clay 3,958 </th <th>Coke</th> <th>21,853</th> <th>tons</th>	Coke	21,853	tons
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China Clay 3,958 " Coffee 3,504 " Unhulled Rice 3,350 " Raw Cotton 3,225 " Lithopone 3,090 " Nitrate of Soda 2,883 " Zinc Oxide 2,635 " Carpets 2,510 "		4,484	66
Coffee 3,504 " Unhulled Rice 3,350 " Raw Cotton 3,225 " Lithopone 3,090 " Nitrate of Soda 2,883 " Zinc Oxide 2,635 " Carpets 2,510 "			66
Unhulled Rice 3,350 " Raw Cotton 3,225 " Lithopone 3,090 " Nitrate of Soda 2,883 " Zinc Oxide 2,635 " Carpets 2,510 "		,	66
Raw Cotton 3,225 Lithopone 3,090 " Nitrate of Soda 2,883 " Zinc Oxide 2,635 " Carpets 2,510 "	Unhulled Rice	3,350	6.6
Nitrate of Soda 2,883 " Zinc Oxide 2,635 " Carpets 2,510 "	Raw Cotton	3,225	4.4
Nitrate of Soda 2,883 " Zinc Oxide 2,635 " Carpets 2,510 "	Lithopone	3,090	6.6
Carpets	Nitrate of Soda		6.6
Carpets	Zine Oxide	2,635	6.6
	Carpets		66
			6.6
Pebbles		,	6.6
Books		,	66
Mineral Water			66
Wines			66
Chemicals			66

PRINCIPAL EXPORTS

Wheat	2,351,591	tons
Flour	235,261	66
Rye	227,151	"
Barley	225,209	66
Oats	116,179	44
Raw Fruit	69,224	66
Corn	59,555	4.6
Copper bars, matte, ingots, etc	48,303	66
Lard	46,974	44
Cheese	39,958	66
Automobiles and parts	33,831	66
Cured Meats	31,913	"
Printing Paper	29,311	66
Fuel Oil	26,495	66
Woodpulp	22,745	4.6
Liquors	19,524	66
Bran	19,025	66
Lumber	18,237	6.6
Soya Beans	15,859	"
Rubber manufactures	14,056	66
Rolled Oats	13,625	"
Shorts	10,035	"
Hay	9,961	66
Cement	9,940	66
Spelter	9,769	66
Cereals	9,630	4.6
Middlings	8,880	6.6
Wire Rods	8,559	6.6
Ship Stores	8,195	6.6
Tar	7,617	6.6
Oil Cake	7,615	6.6
Milk, in tins, powdered, etc	6,973	6.6
Cattle	6,913	6.6
Animal Foods	6,432	
Wallboard and pulpboard	5,114	
Boxboards	4,982	

Acetic Acid	4,529	tons
Fruit in tins, dried, etc	4,268	66
Paper, miscellaneous	3,846	66
Fresh or frozen meats	3,697	44
Pitch	3,479	66
Oat Meal	3,415	"
Dry Goods	3,309	66
Fish	3,236	"
Buckwheat	3,170	66
Plasterboard	3,138	66
Meat, in tins	3,110	66
Match Splints	2,937	44
Agricultural Implements	2,835	66
Binder Twine	2,795	66
Asbestos Fibre	2,706	6.6
Iron piping, bars, etc	2,673	66
Catsup	2,453	"
Phosphorus	2,377	66
Vegetables	2,243	66
Soap	2,100	"
Shooks	1,966	44
Furniture	1,912	66
Empty barrels and drums	1,668	66
Electrodes	1,622	66
Tobacco	1,612	66
Hardwood Flooring	1,593	44
Bedding	1,520	66
Settlers' Effects	1,432	66
Stoves	1,409	66
Jute Bags and Bagging	1,402	66
Machinery	1,321	6.6
Vacuum Cleaners	1,318	66
Butter	1,278	6.6
Carbide	1,257	66
Aluminum Sheets, Ingots, etc	1,251	66
Sausage Casings	1,228	66
Alfalfa Meal	1,210	64

IMPORTS 1932

	Total	Distribu	tion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Acid, Carbolic	91	24	3	64
" Citrie	160	6	49	105
" Formic	97		8	89
" Stearie	380	51	23	306
" Tartartic	373	2	176	195
" N.O.S	407	112	88	207
Advertising Matter	134	27	33	74
Aeroplanes and Parts	220	136		84
Agricultural Implements	90	59	31	
Alum	353	33	96	224
Alumina, Sulphate of	1,284	883	114	287
Alumino Ferric	881			881
Aluminum Foil	95	3	65	27
" Scrap	77	77		
" Sheet	195	17	177	1
" Mfrs. of	64	23	16	25
Ammonia, N.O.S	89	1	4	84
" Carbonate of	96	2	10	84
" Chloride	42		42	
" Muriate of	478	96	232	150
" Nitrate of	231	156	75	
" Sulphate of	1,123	1		1,122
Ammunitions	28	27		1
Anchors	25	2		23
Animal Foods, N.O.S	169	71	51	47
Animals, small	49			49
Antimony	62	10		52
Arrowroot	95		6	89
Artists Materials	34	3	15	16
Asbestos, Mfrs. of	124	21	20	83
Automobiles and Parts	1,317	136	11	1,170
Baby Carriages	459	38	72	349
Bags and Bagging	60	3	2	55
Bananas	42,498			42,498
Barium Carbonate	137			137
Barrels, etc., Empty	1,336	915	18	403
Barytes	934	52	193	689
Basic Slag	200			200
Basketware	793	432	222	139
Batteries	26	20	6	

	Total Distribution after Import		Distribution after Im		
COMMODITY	Tons	Rail	Vessel	Other	
Battery Plates	535	48	487		
Beans	42	1	25	16	
Beer Colouring	20	15	1	4	
Beers	587		528	59	
Bees Wax	36		2	34	
Belting	30	16	1	13	
Bicycles and Parts	225	165	6	54	
Bird Cages	95	37	32	26	
Bird Seeds, etc	121	29	49	43	
Biscuits	553	136	258	159	
Biscuits, Dog	236	28	165	43	
Blanc Fixe	166		45	121	
Bleaching Earth	102	102			
Bleaching Powder	1,203	106	235	862	
Boats, N.O.S	117	63		54	
Boiler Covering	81			81	
Boiler Lagging	30			30	
Bone Meal	110	110			
Books	2,298	439	1,310	549	
Boots and Shoes	635	329	122	184	
Bottles, Common, Empty	418	30	148	240	
" Superior, Empty	142	26	41	75	
I nermos	399	61	206	132	
Boxes, empty	52	39	1	12	
Brass, mfrs. of	102	35	15	52	
Rods	35	e e e		35	
r ubing	194	77	3	114	
wire	43	37	1	5	
Bread	154	62	75	17	
Bricks, Fire	7,905	1,074	47	6,784	
" N.O.S	45 53	18	20 3	30	
Bronze, Mfrs. of	75	20 37	3 17	21	
"Wire Brooms and Brushes	203	54	49	100	
	67	67	.17		
Buttanol	482			482	
	51	3	2	46	
Buttons	31	3	4	40	
Cable Scrap	30	30			
Calcium, Carbonate	23			23	
" Chloride	609			609	
" Nitrate of	106	26		80	
Candles	96	6	58	32	

	Total	Distribu	tion after	r Import
COMMODITY	Tons	Rail	Vessel	Other
Capsules	76	29	12	35
Caramel	22	16		6
Carbide	24			24
Cardboard	567	164	275	128
Carpets	2,510	2,353	41	116
Carpets, Sweepings	38	14	24	
Casings, Sausage	246	23	29	194
Castings	384	210	155	19
Celluloid	70	10	2	58
Celluloid, mfrs.of	131	49	30	52
Cement	191	5	12	174
Chains	175	18	29	128
Chalk	304	173	75	56
Chalk, Precipitated	40			40
Charcoal	532		1	531
Charcoal, Animal	55	55		
Cheese	442	80	40	322
Chemicals, N.O.S.	2,169	354	660	1,155
Chicory	30	11	1	18
Chinaware	1,330	563	252	515
Chloride Barium	64		41	23
Chrometan	179	40		139
Church Ornaments	127	27		100
Cigars and Cigarettes	23	10	2	11
Clay, burnt	27	4	4	19
Cillia	3,958	888		3,070
1 11 €	327	105	4	218
Modelling	67	10		38 12
" mfrs. of	46	34 83	162	183
Clocks	428			1,172,798
Coal, Anthracite	1,172,798 249,909			249,909
Ditammods	442		328	108
Cocoa	5,182	42	779	4,361
Deans	292		100	157
" Butter	4,698		300	4,384
Coconuts	3,504	65	927	2,512
Coffee	61	23	29	9
Coffee Essence	21,853	_		21,849
Coke	1,338		471	484
3	91		7/1	91
Copperas	22		1	12
	28			1
··· Rollers	20			

	Total	Distribu	tion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Copper, Sheets	49			49
" Sulphate of	255	24	11	220
" Tubing	103	31	7	65
Cordage	46	8	4	34
Corks	150	9	26	115
Cork Board	1,582		76	1,506
Cork, mfrs. of	32	8	3	21
Corkwood	600			600
Corn	57,012			57,012
Cotton, Absorbent	594	117	170	307
" raw	3,225	768	321	2,136
" Waste	22	16		6
Cream Separators	229	68	35	126
Cream of Tartar	204		98	106
Creosote	53		53	
Crockery	1,990	344	718	928
Crucibles	125	73	45	7
Cutlery	195	81	14	100
Degras	306	23	36	247
Dextrine	542	59	163	320
Disinfectants	320	24	126	170
Drugs	781	43	134	604
Druggists Sundries	450	143	128	179
Dry Colours	1,300	200	157	943
Dry Goods	22,215	7,908	4,800	9,507
Dyes	926	189	189	548
Earth Colour	28	25	1	2
Earthenware	7,072	2,168	1,992	2,912
Effects, Settlers	1,372	910	82	380
Electrical Apparatus	604	368	34	202
Emery Cloth & Powder	62	18	2	42
Enamelware	1,311	176	450	685
Engines, Oil	81	65	1	15
Exhibits	80	50	30	
Extract, Logwood	28			28
Extracts, N.O.S	80	23	16	41
Extract, Sumac	55	38	17	
Feathers	29	17	2	10
Felt	221	40	12	169
Ferro Manganese	48			48

	Total	Distribu	tion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Fertilizers, N.O.S	342		4	338
Fibres	115	34	15	66
Filtermass	43	2		41
Firearms	26	16		10
Fish, cured	1,649	684	438	527
" Fresh or Frozen	27			27
" in tins	1,379	308	497	574
Fishing Apparatus	156	85	51	20
Flaxseed	11,118	14		11,104
Flour, N.O.S	139	32	29	78
" Potato	129	11	6	112
" Sago	202			202
" Tapioca	33		12	21
" Wood	88	66		22
Fly Catchers	696	278	155	263
Forgings	34			34
Fruit, dried	19,627	4,339	5,103	10,185
" in brine	1,583	6	252	1,325
" in tins	1,810	3	660	1,147
" Juices	40	4	8	28
" Pulp	263	3	116	144
" raw, N.O.S	8,735	1,144	149	7,442
Fuller's Earth	1,199	147	611	441
Furniture	1,734	716	497	521
Furs	369	95	2	272
Garden Bulbs	5,608	2,773	1,404	1,431
Gasoline	161,129			161,129
Gelatine	454	86	102	266
Ginger	196	20	20	156
Glass Sheets	13,726	3,077	3,413	7,236
Glassware	8,359	1,067	3,107	4,185
Glue	502	60	123	319
Glycerine	37			37
Granite Blocks	1,286	607	504	175
" Dust	21		21	
" Monuments	858	188	45	625
Grease	289		4	223
Grindstones	71	21	2	48
Groceries, N.O.S	196	20	115	61
Gums	299		6	120
Gypsum	115		2	113

	Total	Distribution after Impo		
COMMODITY	Tons	Rail	Vessel	Other
Hair	42	42		
Hardware, N.O.S	1,373	482	347	544
Hatters' Fur	175	152		23
Hemp	107			107
Herbs	20	14	4	2
Hides	623	472		151
Hide Cuttings	161	161		
Hollowware	1,049	194	431	424
Hops	270	57	7	206
Horses	18	12		6
Inks	121	27	67	27
Instruments, Musical	243	119	90	34
" Scientific	105	44	2	59
Insulators	270	63	28	179
Iron & Steel Bars	4,942	1,003	242	3,697
" Hoops	26	7	19	
" & Steel, Mfrs. of	982	211	151	620
" Ore, powdered	33	23	10	
" Pig	1,232	45		1,187
" Pipe	88	37		51
" Rolls	46	45	1	
" Sand	126	59	60	7
Sneets,	5,391	438	193	4,760
Skeips	2,208	1,713		495
" Sulphate of	55	* * *		55
Jewellery	13	5	1	7
Jute Cloth	5,078	328	98	4,652
" Padding	30	1	5	24
" Rope	38			38
" Webbing	33	1	6	26
Lamps and Lanterns	69	16	5	48
Lawn Mowers	17	5	1	11
Lead, Acetate of	31	1		30
" Arsenate	85	11		74
" mfrs. of	71	21	2	48
" Nitrate of	68	8	7	53
" Sugar of	34	16		18
" Oxide	43		43	
Leather in bales	241	137	36	68
" Mfrs of	783	287	98	398

	Total	Distribu	tion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Leaves, dried	56	2	8	46
Lentils	57		25	32
Lime Juice	106	1	15	90
" Carbonate of	46	5	37	4
" Chloride of	104		31	73
" Chlorinated	23		23	
" Phosphate of	147	10	11	126
Linoleum	253	55	141	57
Liquors, Intoxicating	5,884	159	4,418	1,307
Litharge	327	45	4	278
Lithopone	3,090	1,187	267	1,636
Lobsters in tins	26			26
Macaroni	56		2	54
Machinery	4,484	2,076	399	2,009
Machines, sewing	58	49	8	1
Magnesia	129	5		124
" Calcined	47			47
" Carbonate	89	22	2	65
Magnesite	17			17
Mahogany Logs & Boards	32	12	1	19
Malt	157			157
" Extract	28	3	19	6
" Syrup	86	2	77	7
Manganese Silica	24			24
Marble Blocks	54			54
" Chips	1,065	41		1,024
" Crushed	187			187
" Slabs	225	25	2	198
" mfrs. of	189		9	153
" Waste	36	25		11
Matches	196		67	129
Mattings	333		104	217
Meal, N.O.S	68			52
" Soya	67			67
Meat, cured	73		17	56
"Extract	20			20
" Fresh or Frozen	132			132
" in tins	1,913		136	1,770
Meters	27			16
Milk in tins	91		1	90
Millinery	1,990		246	736
Mineral Water	2,275	237	133	1,905

	Total	Distribu	tion afte	r Import
COMMODITY	Tons	Rail	Vessel	Other
Molasses	21,741	17	78	21,646
Moss	20			20
Motor Boats	69	69		
Motorcycles	235	137	31	67
Mushrooms	215	31	77	107
Mustard	327	12	227	88
" Bran	23			23
Dross	20			20
" Seed	241	75	110	56
Napthaline	357	7	35	315
Notions	1,318	378	353	587
Nuts and Bolts	26	3	12	11
Nuts, edible	4,825	1,028	1,893	1,904
Nutmegs			17	57
Oakum	71		15	56
Oil, Bean	396		1	395
"Castor	738	79	171	488
" Coconut	108	8	17	83
" Cod Liver	739	227	94	418
" Cotton Seed	1,823	1,478		345
" Essential	218	17	12	189
" Fish	285	47	238	
" Linseed	142	96	8	38
" Lubricating	247	72	107	68
" Mineral	155		155	
" Olive	1,433	100	439	894
" Palm	70	35		35
" Petroleum				1,345,084
" Rape		18	4	27
" Seal	160	17	17	126
various		40	35	238
whale				23
Oilcloth		5		21
Oilmen's Stores		10	49	64
Olives		90	575	673
Oysters		1	···	20
Oyster Shells	8,789	• • •	7,280	1,509
Paints	225	69	61	95
Paper Bags		21	29	27
Paper, Blotting		4	49	3

	Total	Distribu	tion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Paper, Grease proof	25			25
" mfrs. of	2,908	423	539	1,946
" parchment	59	14		45
" printing	671	314	290	67
" Stock	501	474		27
Wall	101	51	30	20
wrapping	814	82	250	482
Paris Green	64	3	18	43
Paste	23	4	4	15
Peas	221	56	8	157
Peas, split	112		20	92
Peat, ground	120	101	120	14
Litter	140 88	124	14	42
1,1055		32		
Pebbles	2,333	2,333	589	8
Peels	433	3	74	356
Pepper	150	36	15	99
Perfumery	215	34	45	136
Peroxide	18,590	18,554	43	36
Phosphate Bone	112	112		
Photo Sundries	171	89	70	12
Piassava	23	15		8
Pickles	46		40	6
Pictures and Frames	281	87	29	165
Pimento	120	2	38	80
Pipes, earthen	76			76
" tobacco	239	62	4	173
" clay, tobacco	25	1		24
Pitch	30	1	1	28
Plaster	276			276
Plumbago	78	2		76
Polishes	321	45	165	111
Potash, carbonate	88	19		69
" caustic	86		12	74
" chlorate of	573	1		572
" Muriate of	7,459	894	5,564	1,001
" Nitrate of	229	3	87	139
" Sulphate of	828	176		652
" N.O.S	889	4	6	879
Potatoes	6,708			6,708
Poultry Litter	80	52		28
Preserves, N.O.S	348	10	222	116

	Total	Distribut	ion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Printed Matter	127	70	34	23
Printing Press	38			38
Propellors	28	8	2	18
Pulleys and Blocks	88	38	15	35
Pulpboard	22	8	3	11
Pumice Stones	200			200
Putty	249	23	12	214
Rags	1,588	198	235	1,155
Rattans	51	41	3	7
Razors and Parts	29	28		1
Refrigerators	33	4		29
Rennet	20	8		12
Resin	222	1		221
Rice	788	1	38	749
Rice, unhulled	3,350			3,350
Roots	105	87	4	14
Rope, N.O.S.	196	9	18	169
" Hemp	102	46	32	24
" Manilla	83	7	16	60
Rubber, mfrs. of	587	220	239	128
" crude	859	670	138	51
Sal Ammoniac	338	7	82	249
Salt Cake	52			52
Salt, coarse	23,971			23,971
" fine	331		46	285
Salts, Bath	46	9	32	5
" Bitter	53	28	25	
" Epsom	1,041	141	252	648
Salt, Gravy	31	3	28	
" Glauber	809	127		682
Salts, Health	404	1	283	120
Salt, Rochelle	103		33	70
Sand, Bulk	8,459			8,459
" in bags	36	5	1	30
Sauces	369	82	218	69
Saw-dust	127	95	13	19
Scales	29	5	5	19
Scenery	27			27
Seed, Beet	119	119		
" Caraway	45		18	27
" Cariander	64	1	5	58
" Garden	124	68	21	35

	Total	Distribu	tion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Seed, Rape	130	2	114	14
" Sunflower	27			27
" N.O.S	328	36	4.8	244
Sheep Skins	359	355		4
Shellac	47	1		46
Ships' Stores	60			60
Shovels	26	3	13	10
Silverware	330	150	18	162
Sisal	91			91
Skins, Calf	144	142		2
Slate	173	27	30	116
Soap, Castile	423	120	187	116
" common	17		17	
Elquid	20	3	9	8
" toilet	238	79	89	70
Soda Ash	73			7.3
Soda, Bicarbonate of	46	1	6	39
" Bichromate of	39			39
Caustic	1,369	250	835	284
Chlorate of	231	43	167	21
" Chloride of	57	1	37	19
" Cyanide of	564	231	177	156
Mitrate of	2,883	2,141	112	630
14.0.5	364	178	10	176
" Phosphate of	1,088	634	115	339
riussiate oi	379		98	281
" Silicate of	477		331	145
Sulphate of	565	89	114	362
" Sulphite of	68	68		102
" Sulphide of	1,254	112	649	493
Spelter	30			30
Spices	286	30	32	224
Sponges	116	66	1 24	84
Sporting Goods	342	234	2 4 41	84
Starch	77	27		
Statice	55		100	26 2.25
Stationery	751	328	198	225
Statuary	350		51	239
Stearine	32		17	
Steel Angles	2,813		20	1,681
" Balls	1,642		1,109	437
" Bands	477		0.6	74
" Billets and Blooms	792	632	86	74

	Total	Distribu	tion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Steel Coils	168	6	38	124
" Dies	39	27	6	6
" Hoops	1,228	662	45	521
" Joists	51		51	
" N.O.S	280	48	52	180
" Plates	14,333	3,042	3,358	7,933
" Rails	3,481		387	3,094
" Rods	246		2	244
" Rollers	90	83	5	2
" Scrap	108			108
" Sheets	11,606	1,273	3,761	6,572
" Skelps	14,599	614	6,714	7,271
" Strips	2,884	566	2,015	303
" Structural	7,006	1,871	257	4,878
" Tees	33			33
" Tubing	1,834	699	3	1,132
" Tyres	2,606	780		1,826
Stones, unmanufactured	610	6		604
Stoves	25	13		12
Straw Board Cuttings	31			31
Sugar of Milk	28	14		14
Sugar, raw	250,531	1,587	20,289	228,655
Sulphur	34,158	22,515	11,526	117
Sundries	864	284	226	354
Superphosphates	5,886		1,372	4,514
Syrups	127	12	93	22
Syrup, Corn	86	1	49	36
Talc	372		78	294
Tanners Extract	201	4	3	194
Tanners Bate	83	3	7	73
Tapioca	47	4		43
Tar	56	2	20	34
Tarvia	56			56
Tea	9,555	224	1,731	7,600
Thread	472	101	47	324
Tiles	1,344	195	246	903
Tins, empty	553	39	96	418
Tin Ingots	225	1	9	215
" Oxides Perchloride	37	30	3	4
" Plates	20,072	2,669	3,893	13,510
"Tubes	59	2		57
Tinware	202	42	69	91

	Total	Distribu	tion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Tobacco Leaf	89	3	3	83
Tobacco, Mfrs. of	154	31	13	110
Tobacconists' Sundries	991	147	89	755
Toilet Articles	393	62	129	202
Tomato Paste	222			222
Tools	532	105	128	299
Toys	17,080	1,452	5,607	10,021
Tractors and Parts	40	30	2	8
Trucks	461			461
Twine, Binder	8,213	94	6,634	1,485
" Cotton	66	5	14	47
" N.O.S	306	34	97	175
Vacuum Cleaners	489	13	90	386
Valises	68	32	6	30
Valves	148	24		124
Varnishes	46	10	8	28
Vegetables in brine	177	33	92	52
" in tins	419	27	55	337
" raw, N.O.S	5,736	1,024	392	4,320
Vegetable Fat	127	2	1	124
Wadding	22	7	4	11
Waste, N.O.S	33		12	21
Wax	883	28	4	851
Wheels	126	86	21	19
Whiting	30,939	2,951	398	27,590
Window Frames	31	27	2	2
Window Rollers	36	15	15	6
Wines	2,270	134	875	1,261
Wire, barbed	2,402	13	2,148	241
" Cloth	97	30	1	66
" Coils	1,374	371	365	638
" mfrs. of	113	37	18	58
" Netting	195	2	10	183
Nods	113		1	112
" Rope	164	46	72	46
Woodenware	729	291	282	156
Woodpulp	106,517	952	105,565	
Wood Wool	53	1 050	53	0.1
Wool	2,045	1,852	112	81
Wool, Carbonated	36	36	25	75
" Grease	224	124	25	15

	Total	Distribut	ion after	Import
COMMODITY	Tons	Rail	Vessel	Other
Wool, Greasy	583	329		254
" scoured	298	205	3	90
" Slipe	178	116		62
" Tops and Noils	1,578	1,016	500	62
" Waste	76	16	23	37
Yarns	5,877	2,914	1,506	1,457
Zinc Chloride	21	4	9	8
" Nitrate	21			21
" Oxide	2,635	911	738	986
" Strips	116			116
" Sulphate of	276	22	102	152
" Sheets	256	22	27	207
" White	957		3	954
" N.O.S	32	3	18	11
_				

4,036,045 145,491 255,972 3,634,582

EXPORTS 1932

	Total	Carrie	l Before	Export
COMMODITY	Tons	Rail	Vessel	Other
Acetic Acid	4,529	4,529		
Acids, various	55	43		12
Adding Machines	49	49		
Advertising Matter	58	12	29	17
Aeroplanes and Parts	279	79		200
Agricultural Implements	2,835	693	2,118	24
Alcohol, industrial	41	2		39
Alfalfa Meal	1,210	1,165		45
Alumina, Sulphate of	63	35		28
Aluminum Bars	58	58		
" Ingots	396	281	115	
" mfrs. of	51	23	23	5
" Scrap	50		27	23
" Sheets	696	178	518	
Ammonia, sulphate of	448	442	5	1
Ammunition	44	21		23
Animal Foods, N.O.S	6,432	1,832	43	4,557
Ashestos Cement	128	122		6
" Fibre	2,706	2,647		59
" mfrs. of	53	24	5	24
" Roofing	45	45		
" Shingles	203	203		
Asphalt	247	234		13
Asphalt Shingles	32			32
Automobiles and Parts	33,831	21,094	10,570	2,167
Bags and Bagging (Jute)	1,402	112		1,290
Bags, paper	51	19		32
Baking Powder	23	2	16	5
Barley Meal	229	215		14
Barrels and Drums, empty	1,668	338	217	1,113
Batteries	473	96	232	145
Battery Plates	52			52
Beans	1,070	1,049	1	20
Bedding	1.520	58	2	1,460
Beers	377	28	81	268
Bicarbonate of Soda	45			45
Bicycles and Parts	22	20	1	1
Biscuits	77	42	1	34
Blocks Lasts	48	1		47
Blood, dried	624	506		118

	Total	Carried Before Exp		
COMMODITY	Tons	Rail	Vessel	Other
Boats	41	33		8
Boiler Parts	40	21		19
Bone Black	41	41		
Bone Meal	46			46
Books	58	44	2	12
Boots and Shoes	35	21		14
Bottles, empty	106		18	88
Box Boards	4,982	4,318	657	7
Boxes, empty	228	83	10	135
Bran	19,025	14,088	84	4,853
Brass Scrap	519		100	419
Bronze Powder	197	16	1	180
Brooms and Brushes	171	104	44	23
Bullion	142	46		96
Butter	1,278	230		1,048
Buttermilk	241	128		113
Canned Goods, N.O.S	160	12	122	26
Capsules	77	51	17	9
Captax	44	38	6	
Carbide	1,257	1,253		4
Carborundum Sand	829	824		5
Carbon Black	40	30	10	
Carboys, empty	24			24
Carpets	28	6	10	12
Cash Registers	172	167	5	
Casings, Sausage	1,228	560	308	360
Castings	180	152	2	26
Catsup	2,453	230	2,136	87
Cattle	6,913	6,891		22
Cattle Hoofs	92	17		75
Cement, building	9,940	36		9,904
Cement, N.O.S	68	6	9	53
Cereals	9,630	9,515	1	114
Chains	148	122	25	1
Cheese	39,958	2,867	524	36,567
Chemicals, N.O.S	87	35	5	47
Cider	39	24	15	
Clocks	22	20		2
Clothes Pins	257	38		219
Coal	276			276
Cobalt Ore	269	269		
Cobalt Oxide	222	222		

	Total	Carrie	d Before	Export
COMMODITY	Tons	Rail	Vessel	Other
Coke	113	92		21
Confectionery, N.O.S	245	57	115	73
Copper Bars	33,874	33,874		
" Bricks	1,078	1,078		
" Cathodes	1,179	1,179		
" Ingots	2,348	2,348		
" mfrs. of	49	22	. 15	12
" Matte	8,362	8,362		
Rollers	25		25	
эстар	961	13	285	663
meets	71	10	42	19
Wife	356	288		68
Corn Meal	73			73
Cyanide	820	820		
Doors	146	135	9	2
Dowels	117	90		27
Drugs and Medicines	354	143	73	138
Druggists Sundries	353	74	35	244
Dry Colors	236	23	212	1
Dry Goods	3,309	2,865	26	418
Dynamite	71			71
Earthenware	53	25	1	27
Effects, settlers	1,432	808	73	551
Eggs	89	58		31
Eggs, frozen	38	19		19
Electrical Apparatus	639	591	2	46
Electrodes	1,622	1,622		
Engines	92	59	3	30
Exhibits	27	20		7
Extracts	44	25	10	9
Feldspar	42	42		
Felt, N.O.S.	289	268		21
Fibre	23	23		
Fibreboard	1,172	1,143		29
Fire Brick and Clay	25	1		24
Fish, cured	1,589			1,589
Fish, Fresh or Frozen	1,296	1,261		35
Fish, in tins	351	328		23
Flooring, hardwood	1,593	1,482		111
Flour, Buckwheat	68			68

	Total	Car	Export	
COMMODITY	Tons	Rail	Vessel	Other
Flour, Corn	377	357	20	
" Wheat	235,261	138,914	8,477	87,870
Foundry Supplies	98	5	2	91
Fruit, dried	372	279	1	92
" in tins	1,910	137	1,746	27
" Jars	486	486		
" Pectin	1,901	1,901		
r uip	85	30	50	5
1aw	69,224	68,638	229	357
Furniture	1,912	1,672	5	235
Furs	436	173		263
Garden Bulbs	907	878		29
Gas Black	48	48		
Gas, in cylinders	51			51
Gasoline	270			270
Glass Jars, N.O.S	541	530	2	9
Glassware	51	28	2	21
Glue	31	1		30
Grain in Bags:—	400	4	4.04	-
Barley	190	4	181	5
Buckwheat	140	1	1	140
Corn	7,608	2,810	_	158 4,798
Oats Oat Groats	165	2,010	84	,
Wheat	6,924	8	01	6,916
Grain in Bulk:—	0,721	O	• • •	0,710
Barley	225,019		225,019	
Beans, Soya	15,859		15,859	
Buckwheat	3,030		3,030	
Corn	59,395		59,395	
Flax	782		782	
Oats	108,571		108,571	
Rye	227,151		227,151	
	2,344,667		2,344,667	
Graphite	58	58		4.4.0
Grease	481	339		142
Grinding Wheels	31	29	2	127
Groceries, N.O.S.	243 84	67 70	49 13	127
Gum, chewing	123	123	13	
Gypsum Plaster	212	212		
Sypsum Haster	212	212		

	Total	Carri	ed Before	Export
COMMODITY	Tons	Rail	Vessel	Other
Hair	333	314		19
Handles, wooden	558	497	21	40
Hardware, N.O.S	450	320	22	108
Hay	8,544	731	525	7,288
Hides	287	52	181	54
Honey	965	338	449	178
Hops	63	54		9
Horses	21	1		20
Horseshoes	103			103
Incubators	28	20		8
Inks	53	2	22	29
Instruments, musical	86	59	4	23
Insulators	417	51	359	7
Iron Bars	106	7		99
Iron, mfrs. of	127	28	56	43
" pig	85	85		
" Piping	2,261	873		1,383
" Scrap	94	39	2	53
·				
Lamps and Lanterns	67	19	7	41
Lard	46,974	46,893	10	71
Lawn Mowers	32	27		5
Lead Scrap	36		* * *	36
Leather Bales	87	79		8
Leather, mfrs. of	1,169	928	32	209
Lime Phosphate	81	81		4.00
Linoleum	101		1	100
Liquors	19,524	5,014	1,765	12,745
Lithopone	24	24		
Livestock, N.O.S	25	1.010		25
Lobsters, in tins	1,085	1,018	* * *	67
Macaroni	1,075	110		965
Machinery	1,321	734	476	111
Machines, Sewing and Parts	32	4		28
Magnesite	1,118	1,118		
Malt	489	464		25
Maple Strips	514	448		66
Match Blocks	107	107		
" Splints	2,937	2,937		
Meals, N.O.S	65	45		20
Meats, cured	31,913	30,050	71	1,792

	Total	Carri	ed Before	Export
COMMODITY	Tons	Rail	Vessel	Other
Meats, Fresh or Frozen	3,697	2,566		1,131
" in tins	3,110	3,014	25	71
Meters	25	8	16	1
Middlings	8,880	8,408	3	469
Milk, in tins	5,320	4,086	1,179	55
" N.O.S. in bbls	689	19	670	
" powdered	964	845	98	21
Millinery	37	12	2	23
Mineral Waters	33			. 33
Motor Boats	59	59		
Nails	327	48	1	278
Nickel Cathodes	53	53		
"Ingots	38	38		
" Matte	504	504		
Oxide	285	285		
Snot	59	59		
Slabs	130	130		4.02
Nuts and Bolts	202	19		183
Nuts, edible	22	3	10	9
Oat Meal	3,415	3,225	63	127
Oats, rolled	13,625	12,580	17	1,028
Oil, Cake	7,615	902		6,713
" coal	44			44
r uel	26,495			26,495
raru	124	124		
Linseed,	51	0.57		51
lubricating	542	257	75	285
" Oleo various N.O.S	439 64	364 4	75 4	56
various N.O.S	04	4	4.	30
Paints	168	21	36	111
Paperboard	227	202		25
Paper, N.O.S	480	328	15	137
" Printing	29,311	28,988	25	298
" roofing	373	16	1	356
" wall	470	98	272	100
" wrapping	2,523	2,439	1	83
Paste, adhesive	117	6		111
Peas	229	229		:::
Phosphorus	2,377	1,710	295	372
Photo Supplies	979	103	866	10

	Total	Carrie	d Before	Export
COMMODITY	Tons	Rail	Vessel	Other
Pickles	25	5	13	7
Pictures and Frames	25	13	5	7
Pipe Fittings	125	69	1	55
Pitch	180		2	180
1 ftch	3,299	• • •	2)	3,297
Plasterboard	3,138	3,019		119
Pollard	75	72		3
Poultry	152	102		50
Preserves	37	3	22	12
Printed Matter N.O.S	118	52	41	25
Pulpboard	901	794		107
Pumps	294	29	264	1
Putty	29	6		23
Radiators	68	3		65
Radio Parts	334	323		11
Rags	398	36	167	195
Refrigerators	497	464	16	17
Releasall	21			21
Rice	258		• • •	258
Rice Meal	113	242	• • •	113
Roofing Felt	347	313	1 066	34
Rubber, mfrs. of	14,056 92	10,315	1,966	1,775
Rubber Scrap	92			92
Salt, fine	485	457		28
Salts, Health	49	36		13
Sand, fire	65	62		3
Sauces	103		103	
Scenery	182			182
Screenings	276	96	179	1
Seed, Grass	853	298	532	23
Seed, N.O.S	311	111	197	3
Seneca Roots	52	43		9
Shawinigan Black	20	20		
Ship Stores	8,195			8,195
Shoe Shanks	33	32		1
Shooks	1,966	1,614	110	352
Shorts	10,035	6,637	112	3,286
Shovels	216	216		
Skewers	122	122		
Snaths	30	30	2.060	25
Soaps, N.O.S	2,100 93	15 53	2,060 25	25 15
Soap Powder	93	53	25	15

	Total	Carrie	d Before	Export
COMMODITY	Tons	Rail	Vessel	Other
Soapstone	305	305		
Soups, in tins	1,117	152	926	39
Spelter	9,769	9,769		
Sporting Goods	201	64	98	39
Staples, metal	93	56		37
Starch	66	56		10
Stationery	125	57	14	54
Stearine	73	36	37	
Steel Dies	204	204		
Inirs, oi	55	14	9	32
Raiis	41			41
structural	274	21	243	10
Stone, unmanufactured	225			225
Stoves	1,409	1,291	5	113
Sugar, Maple and Syrup	24	21		3
" refined	586		* * * *	586
Sundries	1,011	299	59	653
Sweepings, Jewellers	30	28		2
Syrup, corn	140	137		3
Table Oilcloth	103	5		98
Talc	952	952		
Tallow	113			113
Tar	7,617		7,611	6
Tarvia	288			288
Tea	77	2		75
Tin Dross	115	67	40	8
Tins, empty	48	14	7	27
Tinware	26	2		24
Tobacco, raw leaf	1,556	1,408		148
" mfrs. of	56	7		49
Tobacconists Sundries	28	8	19	1
Toilet Preparations	1,075	884	109	82
Tomato Juice	110	75	35	
Tools, N.O.S	739	636	62	41
Toys	429	236	64	129
Trucks	534	480	35	19
Trunks	21	7	5	9
Twine, Binder	2,795	851	1,944	
" N.O.S	18	10	5	3
Typewriters	535	174	361	
Vacuum Cleaners	1,318	138	1,179	1

	Total	al Carried Before Exp			
COMMODITY	Tons	Rail	Vessel	Other	
Valves	313	93	91	129	
Varnish	26	4	11	11	
Vegetable Fat	96		96		
Vegetables, raw	480	88	40	352	
" in tins	1,763	113	1,359	291	
Veneers	411	411			
Vinegar	47		2	45	
Wallboard	4,213	4,072	58	83	
Washing Machines	653	644	5	4	
Wax	29	14		15	
Wheat Germ	792	792			
Wheels and Parts	110	109		1	
Window Shades	334	332	37	2	
Wines	45 110	48		62	
" Cloth	177	8	132	37	
"Fencing	172	79	52	41	
" mfrs. of	35	8	2	25	
" Rods	8,559	8,505	7	47	
" steel, in coils	374	10		364	
Woodenware	330	261	31	38	
Woodpulp	22,745	22,745			
Wool	682	634	45	3	
Yeast	26	1	21	4	
Zinc Dross	335			335	
" Ingots	432	432			
Grand Totals	3,908,078	604,641	3,042,617	260,820	
Lumber Exported	18,237				

^{3,926,315}

DOMESTIC

	Total	R	AIL	VESS	EL	
GOODS	Tons	In	Out	In	Out	Other
Acids, N.O.S	421	385		1	35	
Acids, Sulphuric	39	39				
Aerated Waters	1				1	
Agricultural						
Implements	19		15		4	
Alcohol, Industrial	645	19	620		6	
Aluminum Foil	3				3	
WHIS, OL	1				1	
ware	16				16	
Ammunitions	41 54			6	35 54	
Anti Freeze	6				6	
Asbestos	253	181	13		59	
" Cement	233	101			2	
" Gravel	30	30				
" Mfrs. of	48	* • •			48	
" Shingles	95				95	
Asphalt	1,084	240	833		11	
Automobiles	35		6	5	24	
Auto Parts	13				13	
Axes	10				10	
Axles	35	34			1	
Babbit Metal	8				8	
Bagging	728	73	531	1	123	
Baking Powder	16	12			4	
Barrels Empty	16	7			9	
Baskets	96	96				
Basket Ware	6 1	6			1	
Baths	511	294	• • •		217	
Beer	4	494	• • •		4	
Beet Pulp	25				25	
Belting	1			1		
Benzine	641	37			604	
Bicycles and Parts	71	67			4	
Billets and Blooms	271	271				
Biscuits	33	33				
Boats	13	13				
Boilers and Parts	166	56	64	43	3	
Bolts and Nuts	270				270	

	Total	RAIL		V	VESSEL	
GOODS	Tons	In	Out	In	Out	Other
Books	51			1	50	
Boots and Shoes	8				8	
Bottle Capsules	13	• • •		1	12	
Bottles, Empty	438	77		1	360	
Bottles, Thermos	2				2	
Boxes, Empty	174	117	17	1	39	
Bran	3,128	1,896		873	359	
Brass, Fittings	13	13				
" Mfrs. of	20	20				
" Sheets	1				1	
" Tubing	1				1	
" Rods	3				3	
Brewers Sprouts	10		405		10	
Bricks, Fire	156		135		21	
Bronze, Liquid	1				1	
M115. 01	3				3	
1 0Wde1	11				11	
Rods	5	1.0			5 1	
Brooms	13	12				
Broom Straw	27 1	27			1	
Brushes	14	14				
Butter	14	14				
Cable	21				21	
Candles	11			2	9	
Canned Goods, N.O.S	236	21		13	202	
Carbide	726	31			695	
Cardboard	1				1	
Carpets	4				4	
Casings (Sausage)	3			1	2	
Castings	138	122			16	4 712
Cement	68,073	24	2,392	2	60,942	4,713
Cereals	193	193			20	
Chains	29	2.4	1 020	2	29	
Cheese	1,874	34	1,838		44	
Chemicals, N.O.S	82	38			16	
Chicory	16	18		68		
Chinaware	86 28					28
Chloride	28				1	
Chocolates	2			2		
Church Ornaments	107	44	37	۷	26	
Clay, Fire	339				339	
('leansers	339				007	

	Total	RAIL		VESSEL		
GOODS	Tons	In	Out	In	Out	Other
Clothes, Pins	60				60	
Coal, Anthracite	23,497	19,943				3,554
Coal, Bituminous	1,179,332	694	1	,176,148	462	2,028
Cocoa	94				94	
Cocoanut	1				1	
Coffee	22				22	
Coke	1,657	1,657				
Confectionery	15				15	
Copper Sheets	3				3	
Cornstarch	127				127	
Cottonwaste	26		26			
Cream Separators	24	24				
Crockery	796	39		735	22	

Disinfectants	26				26	
Druggists Sundries	22				22	
Drugs	92			1	91	
Drums, Empty	15	15				
Dry Goods	259			1	258	
Forthonword	46				46	
Earthenware	11	4		6	1	
Eggs	101	101		_	_	
Electrical Apparatus	9				9	
Electrical Fittings	í				1	
Enamelware	30			23	7	
Explosives	35	24			11	
Extracts	6				6	
Feathers	2				2	
Feed	256	88	88	12	68	
Felt	20				20	
Fertilizer, N.O.S	138		20		118	
Fish, Cured	56			54	2	
" in tins	5,900	100		5,609	191	
" Plates	38	38				
Flax	6,371	6,371				
Flour	23,323	3,673	42	18,952	656	
Forgings	7	5			2	
Fruit, in Brine	1				1	
" Dried	116	91		11	14	
" Green	1,727	1,430	296		1	
" Juice	43				43	

	Total	RAIL VE		ESSEL		
GOODS	Tons	In	Out	In	Out	Other
Fruit, Syrup	3				3	
" in tins	955	113	54	353	435	
Furniture	266	7		13	246	
Galvanized Sheets	1,761	559	1,197		5	
Gasoline	357,812	601	60,119	3,499 2		
Gear	397	205	192			
Gelatine	3				3	
Glass	12				12	
Glassware	6			1	5	
Glucose	481				481	
Glue	22				22	
Glycerine	1				1	
Grain	520	306		188	26	
Grain for Local Delivery	114,469	6,037		108,432		
Grain Barley	13				13	
Graphite	3				3	
Grease	44	30		7	7	
Grind Stones	3 219	151		3	3 65	
Groceries, N.O.S	28,333			20,807	7,526	
Gypsum	20,333			20,007	1,520	
Hair	1				1	
Handles, Wooden	554	459	76	9	10	
Hardware	193	16	17	5	155	
Hay	1,417				1,417	
Honey	176				176	
Hops	28			10	18	
Horse Shoes	81				81	
Ink	92				92	
Instruments, Musical	3			2	1	
Iron, Bars	182			28	154	
" Hoops	5				5	
" Ore	20				20	
" Pipe	407				407	
" Sheets	178	111	67			
Jelly Powder	31				31	
Jute, Cloth	97		97			
Kalsomine	54	19			35	

	Total	1	RAIL VESSI		ESSEL	SSEL	
GOODS	Tons	In	Out	In	Out	Other	
Lamps and Lanterns	6				6		
Laths, Metal	2				2		
Lawn Mowers	24				24		
Lead	50	48			2		
Lead, Scrap	10			10			
Leather	11				11		
Lime	135	135					
Linoleum	8				8		
Liquor, Intoxicating	10	10			170		
Liquors	172				172		
Macaroni	175	12		92	71		
Machinery	1,287	709	464	63	51		
Magnesia	3				3		
Meal	1,208	111	1,070		27		
Meat, Cured	68	62			6		
" Extracts	48				48		
" Fresh	872	846	26				
" in Tins	515	168		51	296		
Meters	7				7		
Middlings	1,694	150		1,497	47		
Milk, in tins	482	469			13		
Milk, Powdered	26	16			10		
Mill Waste	4				4		
Mirrors	1				1		
Molasses	3,449	155	3,290		4		
Moulee	75			75			
Mustard	1			1			
Nails	1,671			21	1,650		
Naptha	2,786				2,786		
Nuts, Edible	4				4		
Oats, Feed	58			12	46		
" Rolled	1,044	462		582			
" Cake Meal	55		25		30		
Oilcloth	25				25		
Oil, Coal	1,742		68		1,674		
" Coconut	1				1		
" Cod Liver	51			22	29		
" Corn	46				46		
" Crude	218,545				218,545		
" Fuel	341,091	2,208	11,098	30,155			

	Total	R	AIL	VE	SSEL	
GOODS	Tons	In	Out	In	Out	Other
Oil, Kerosene	561				561	
" Linseed	581	46	524		11	
" Lubricating	48,426	287		27	48,112	
" N.O.S	50			50		
" Olive	1			1		
" Petroleum	693				693	
" Refined	7,435			7,433	2	
ocai	23			23		
Ornaments	4			4		
Oxygen, Gas	2		* * *	• • •	2	
Paints	635	20		14	601	
Paper, Board	23				23	
" Mfrs. of	1,132	769		55	308	
" Printing	49	20			29	
"Roofing	204	15	22		167	
" Stock	1,748		1,748			
1 OHET	104			75	29	
Wall	208	45			163	
Wiapping	557	434		5	118	
Peas	209 2	60		146	3 2	
Peels	76	76			_	
Photo Supplies	8			1	7	
Photo Supplies	26	12			14	
Pictures and Frames	27	21			6	
Pipe, Copper	2				2	
" Fittings	48			3	45	
" Galvanized	32				32	
Pitch	1				1	
Plaster	433	375	56		2	
Plumbago	1				1	
Polishes	41				41	
Porcelain	12	12				
Potatoes	131	131				
Poultry	38	38				
Poultry Feed	48	25		12	11	
Preserves	218	194			24	
Printed Matter	51			3	48	
Pulp Board	13				13	
Pulleys and Blocks	2				2	
Putty	3				3	

	Total	RAIL		VESSEL		
GOODS	Tons	In	Out	In	Out	Other
Radiators	2				2	
Rags	2,387		2,387			
Rails, Wooden	1			1		
Range Boilers	27				27	
Reels, Wooden	17			17		
Refining Earth	308	308				
Refrigerators	24 250			24		
Rice	10			177	73 10	
Rope	3				3	
Rubber, Mfrs. of	153			7	146	
Rubber, Milis, Or	100			,	140	
Salt, Coarse	45	41			4	
Salt, Fine	1,646	1,622			24	
Salts, Health	10				10	
Salt, Table	61	61				
Sand	35,556	357		14,328	1,340 1	9,531
Sauces	91	48			43	
Scales	53		47		6	
Scrap, Brass	14	14				
Leau	20 13	20 13				
" Iron	429		429			
" Steel	29		429	29		
Seed	94	17			77	
Sewing Machines	13				13	
Shingles	120				120	
Ship Stores	275		153	58	64	
Shortening	24				24	
Shooks	58	58				
Shorts	3,386	351		2,896	139	
Signs, Metal	3				3	
Slag	30		30			
Slate	56	56				
Soda, Bicarbonate of	146	15	91		40	
" Sal	92	40			52	
Soap, Castile	1	247			1	
Common	402 282	347			55	
rowder	378	253 338			29 40	
" Toilet	824	41		21	762	
Spices	2	41		1	102	
Spikes	138				138	
Spires	130				130	

	Total	I	RAIL	VE	ESSEL	
GOODS	Tons	In	Out	In	Out	t Other
Spoolwood	866	866				
Sporting Goods	6				6	
Staples, Metal	92			9	83	
Starch	334	51			283	
Stationery	137			1	136	
Steel, Angles	15	15				
" Axles	40	40				
" Bars	4,518	728	2,589	20	1,089	92
" Beams	69	64			5	
" Billets and Blooms	6,094	6,094				
" Butts	9				9	
" Channels	88	83	5			
" Drums	224	206	5	13		
" Hoops	4				4	
" Mfrs. of N.O.S	4				4	
" Pipe	45				45	
" Plate	1,549	664	368	512	5	
" Rails	1,333	1,330			3	
" Rods	1,993					1,993
" Scrap	753	753				
" Sheets	445		251	150	44	
" Structural	3,323	366	2,025	627		305
" Tanks	13		12		1	
Stone, Crushed	23,957	254		26		23,677
Stoneware	19	19				
Stoves	18	18				
Sugar, Refined	55,886	1,872	8,639	12,688	32,687	
Sundries	2,399	2,022	88	52	237	
Surgical Supplies	13				13	
Syrup, Corn	135				135	
" Malt	121				121	
" Maple	34				34	
" N.O.S	62				62	
Tar	3,034			3,034		
Tea	189		113	36	40	
Tie Plates	169	56		113		
Tin, Mfrs. of	67	57		5	5	
Tobacco	224	135	38		51	
Toilet, Preparations	5			1	4	
Tools	1				1	
Toys	134			98	36	
Tractors	171	171				

	Total	RAIL		VESSEL		
GOODS	Tons	In	Out	In	Out (Other
Trucks	179		173		6	
Trunks	6				6	
Tubing	1				1	
Turpentine	1				1	
Twines	44			1	43	
Typewriters	3			3		
Vacuum Cleaners	2				2	
Valises	3				3	
Valves	85			5	80	
Varnish	108			108		
Vegetables, Raw	10,838	7,192	131	3,514	1	
Vegetables, in tins	984	108		145	731	
Vinegar	166			166		
Wall Board	55				55	
Washers	13				13	
Washing Blue	63				63	
Washing Compound	65				65	
Wax	45				45	
Wheels	78	13	14		51	
Wheel Barrows	12	11			1	
White Lead	173				173	
Window Shades	19				19	
Wire, Barbed	24				24	
" Copper	6				6	
r ending	51				51	
Garvanized	126			13	113	
nangers	12				12	
IVIIIS. OI	12	20			12	
Netting	39	39			104	
N.U.S	126 942	55		2 114	124 773	
Rods	14				14	
" Rope Wood, Mfrs. of	52	46			6	
" Pulp	1,562		80	1 482		
" Pulp	1,502	10		1,482		
woodenware	10	10				
Yarn	49	49				
Zinc	1,057	1,056			1	

Total....... 2,649,348 84,089 104,851 1,416,863 987,624 55,921

MISCELLANEOUS

		R	AIL	V	ESSEL	
GOODS	Total	In	Out	In	Out	Other
Bricks (Number)	31,000	9,000	10,000	12,000		
Firewood (Cords)	1,795	391		1,404		
Grain Doors (Cars)	80	29	51			
Lumber Dressed (Feet)	2,176,416	619,481	36,000	1,503,463	17,472	
Lumber Rough (Feet)	33,517,227	13,484,191	16,719	13,956,620	2,265,561	3,794,136
Ogilvie Flour Mills (Cars)	2,832	924	1,908			
Railway Ties (Number)	1,213	1,213				

Estimated Tonnage of Above

COMMODITY	TONS
Bricks	78
Firewood	1,795
Grain Doors	960
Lumber (Dressed)	2,176
Lumber (Rough)	33,517
Ogilvie Cars	113,280
Ties	61
	-
Total Miscellaneous	151,867
Less Lumber Exported	18,237
Net Miscellaneous	133,630
Domestic	2,649,348
Total	2.782.978

TONNAGE SUMMARY

Domestic "Brick, etc Domestic Total Less Lumber exported	128,895 317,835	2,423,66	$\frac{8}{5.} = \frac{3,794}{59,715}$	Total 2,649,348 151,867 2,801,215 18,237
				2,782,978
Distributio	on after	Import		
	Rail	Vessel	Other	Total
Import	145,491	255,972	3,634,582	4,036,045
Carried	Before I	Export		
	Rail	Vessel	Other	Total
Export				3,908,078 18,237
				3,926,315
Distribut	tion of T	onnage		
		Rail	Vessel	Other
Domestic		317,835	2,423,665	59,715
Import		145,491	255,972	3,634,582
Export		604,641	3,042,617	260,820
		1,067,967	5,722,254	3,955,117
Total Ton	nage All	Sources		

Note:—Of the total of 55,693 tons of lumber shown in the Miscellaneous statement, there was exported 18,237 tons, which is shown as an addition to the Export Tonnage.

 Import...
 4,036,045 tons

 Export...
 3,926,315 "

 Domestic...
 2,782,978 "

Grand Total...... 10,745,338 tons

STATEMENT OF COAL AND COKE IMPORTS

Foreign Coal and Coke Imported Ex Vessel

British anthracite	
German anthraeite	
United States anthracite	
British bituminous	
United States bituminous	
British coke	
Total Ex Vessel	
Anthracite	
Bituminous	
Col-0	
Coke	

Other Coal and Coke Receipts

Canadian bituminous (by vessel from Nova Scotia)	tons
Saint John in winter season)	6.4
United States anthracite (by rail)	66
Canadian coke (by rail)	66
United States bituminous (by rail)	6.6
Total	66
Total Foreign (ex vessel) 1,444,556 tons	
Total Canadian	
Total Foreign (ex rail) 19,687 "	
Grand Total	
Bituminous	
Anthracite	
Coke	
2,642,048 "	

ENGINEERING DEPARTMENT

The new capital expenditure development works during the season were confined to industrial wharf construction at Montreal East, Sections 103 to 107.

Work on Wharf construction and reconstruction, previously commenced, was resumed and continued during the season at Bickerdike Pier, Laurier Pier, Sections 25-35, Sections 56-61, and Section 109.

A few small Railway sidings, chargeable to capital account, were laid; also sewer and water pipes.

The following are the principal items of construction, repair and maintenance undertaken during the year:—

Wharves

Continuation of wharf construction at Bickerdike Pier.

Continuation of wharf construction at Sections 25-35.

Continuation of wharf construction at Laurier Pier.

Continuation of wharf construction at Sections 56-61.

Construction of Jetty at section 104.

Construction of wharf at section 105.

Construction of wharf at section 106.

Maintenance and repairs of wharves in general.

Water Mains and Sewers

No new water main or sewer works were carried out during the season in connection with Harbour development proper.

Railway Construction

A few small additional sidings or extensions to existing ones are the only items of railway construction to be recorded.

Dredging

Apart from the preparation of crib seats in connection with capital works, and the back-filling of the cribs, there was no new dredging chargeable to capital expenditure undertaken during 1932.

Survey of Harbour

A minute and accurate survey of part of the Harbour was carried out during the season of 1932, so as to fill a long-felt requirement for an accurate plan of the Harbour of Montreal.

NEW WHARVES

Continuation of Shore Wharf, Sections 34-35

In order to complete this shore wharf which extends to the Dominion Coal wharf, the gap between this old wharf and the newly constructed sawtooth wharf was closed by means of a timber or pony crib 31 ft. long by 44 ft. wide which was built in place and sunk in approximately 32 ft. of water below Elevation 93.00.

This work was carried out by the Commissioners' forces and permitted of the reclaiming of the area between this newly completed shore wharf and the old wooden crib.

The backfilling work is now well advanced and it is anticipated that it will be completed early in 1933.

Continuation of Reconstruction of Laurier Pier, Section 42

The work of reconstructing the upstream side of Laurier Pier was resumed in 1932.

The concrete superstructure or quay wall, over the nine concrete cribs previously sunk along the upstream side and part of the outer or return end of the pier, was built from the top of these cribs, with bollards and moorings provided, to Elevation 103.40 during the year.

The area between the new quay wall and the old portion of the Laurier Pier was reclaimed, rendering this berth available for navigation purposes as a low level wharf.

The cope length of this new wharf along the upstream side is 895'5" and 141'9" along the outer or return end of the pier.

3,223 cubic yards of concrete were used for this work which was carried out entirely by the Commissioners' forces.



SHORTLY BEFORE THE CLOSE OF THE SEASON OF NAVIGATION THERE WERE SHIPS UNLOADING AND LOADING CARGO AT EVERY BERTH IN THE PORT.

Continuation of Shore Wharf, Section 58

During the season 1931, a concrete crib was sunk at the downstream end of this coal dock to enable the Commissioners to extend a City sewer outlet to the new wharf line.

This year a concrete superstructure or quay wall was built by the Commissioners' forces over the entire length of this crib and a portion of the adjoining crib to finished cope elevation 118.00. Approximately 820 cubic yards of concrete were used in this construction.

The reclaiming work behind this newly constructed wall and the old shore line was also started during the year.

Shell Oil — Lasalle Petroleum — Section 104

The "Shell Oil Company of Canada" and the "Lasalle Petroleum Refinery Company" having built individual refineries at Montreal East, required berthing facilities for the unloading and shipping of their raw material and products.

A new dual wharf, for the joint use of these Companies, consisting of five concrete cribs, was constructed at the foot of Tetrault St. These cribs were topped by concrete quay walls erected on each side of the cribs and tied together at the outer end by a similar wall. The upstream side of the wharf was allotted to the Shell Oil Co. and the downstream to the Lasalle Petroleum Co.

The five cribs used for this wharf were built by the Northern Construction Company as well as the concrete superstructure, and give a total completed cope length or berth of approximately 507 lin. ft. each for the use of these companies.

A new method of water circulation for the downstream basin formed by this pier was introduced in the design of this wharf by leaving the interspace between each of the cribs open from the bed of the River to the top of the crib.

Sun Oil Company, Section 105

A new wharf had to be constructed for the use of the Sun Oil Company to replace the one which they previously occupied and which was absorbed in a new development or enlargement scheme carried out by the Commissioners for the use of another Company.

This new wharf consists of a concrete crib 107 lin. ft. long topped by a concrete quay wall built to cope elevation 109.00 and extending over the entire face and ends of the crib. This wall was extended on the back face of the crib for a distance of approximately 30 ft. at each end of the crib and acts as wing walls and retains the fill deposited over the area of the new wharf.

A mole connecting this wharf with the mainland was also partly constructed during the season, thus rendering this new berth available for occupancy for the opening of navigation in 1933.

British American Oil, Sections 105-106

To cope with their increasing shipping requirements, representations were made to the Commissioners by the British American Oil Co. for additional berthing facilities for their Montreal East plant.

As a result of their demand the wharf which this Company previously occupied and the one formerly used by the Sun Oil Co. were joined together. One crib 87'6" long and two 112 ft. cribs were sunk to fill this gap. A double face extension of approximately 230 lin. ft. was also built adjoining their old wharf and extending in an easterly or downstream direction. Two 112 ft. concrete cribs were used for this extension.

This new wharf including the two previously built piers incorporated into the whole represent an outside berth 762 lin. ft. long and an inside berth approximately 220 ft. long.

The cribs and the concrete quay walls were built by the Northern Construction Company.

The area between this newly constructed wharf and the mainland was reclaimed during the season.

RECAPITULATION OF WHARF CONSTRUCTION

Concrete Cribs Sunk

	No.	Length	Total length
British American Oil Wharf	5	535'6''	
Sun Oil Wharf	1	107'0''	
Lasalle-Shell Wharf	5	498'9''	1,141'3''

Wooden Cribs Sunk

Section	36.				. 1	31'0''	31'0''
---------	-----	--	--	--	-----	--------	--------

Top Walls of Wharves Completed to Temporary Low Level

	Length measured on cope line	Total length
British American Oil Wharf		
Sun Oil Wharf	248'0''	
Lasalle-Shell Wharf	1,055'4''	
Laurier Pier	1,037'2"	3,183'11''

Top Walls of Wharves Completed to High Level

EXTENT OF WHARVES

The extent of the Wharves and Piers at the end of the season of 1932 is as follows:

30 ft. depth and over, at O.L.W		lin. ft. or	7.2877 2.7733	miles
Total deep draught. 20 ft. depth and under		"	10.0610 0.3454	66
Total Wharfage end of 1932 Total Wharfage end of 1931		"	10.4064 10.1012	6 6
Increase in 1932	1,611	"	0.3052	66

SEWERS, INTAKE PIPES AND WATER MAINS

C.P.R. Sewer, Section 35

An 18" steel pipe 166 ft. long was laid from the outlet, provided last year through the new sawtooth wharf, to a permanent concrete chamber built to receive the flow of the old existing sewer, this completing the diversion of this sewer.

Montreal Light Heat & Power Co., Sewer Outlet, Section 35

A permanent steel sewer was laid over a pile trestle foundation to connect the new outlet built last year through the concrete wharf and the existing chamber built in the face of the old existing wharf.

102 lin. ft. of 30" diam. steel pipe was used for this work.

Monarque Street Sewer, Montreal East

The outlet of this sewer, situated approximately at the boundary line of the Commissioners' property at the foot of Monarque Street, was too close inshore to permit of certain developments taking place along the shore line in this vicinity.

Consequently a 4' Circular Steel Pipe 144 ft. long was laid from the existing manhole and across the beach into open water. The manufacture as well as the laying of this pipe was carried out by the Commissioners' Forces.

Water Intake, Section 35

The Montreal Light Heat & Power Company's new intake well constructed last year and embodied in the concrete sawtooth wharf at Section 35, was connected with their old intake chamber by means of a 4 ft. steel circular pipe during the season. This pipe which is approximately 129 ft. long was laid over a pile trestle and acts as a tunnel for the laying of the Company's intake pipes.

Water Intakes, Section 104

At the inshore end of the Shell-Lasalle Wharf at Montreal East, water intake chambers or suction wells were provided for the Shell Oil, Lasalle Petroleum and the Canadian Copper Refineries to supply their respective plants with river water for industrial purposes.

These intake chambers are built of reinforced concrete and are embodied in the wharf structure. Each chamber is 8'6" x 11'3" and extends from the wharf level of 109 to about 4 ft. below low water. Access is provided to each chamber for inspection purposes through a steel manhole at the wharf level. Screens are provided on the outer end of the intake pipes to prevent rubbish being drawn into the suction chamber.

From the suction chamber 24" steel pipes lead through the wharf fitted with necessary coupling arrangements to receive the water pipes which lead from the wharf to the pump houses of these companies.

A 24" pipe line 524 ft. long was laid for the Shell Oil Company from the wharf to their pumping station. A supply line was also installed in the same trench for the Lasalle Petroleum and consists of 49 lin. ft. of 24" pipe reducing to 18" for a length of 446'6".

All the land and underwater work in connection with these intake pipes was carried out successfully by the Commissioners' forces.

PAVING

A further portion of the South Shore approach to the Montreal Harbour Bridge was paved with Bituminous concrete. In all, approximately 6820 sq. yards were laid.

No other lanes of traffic were paved during the year, but some repairs were carried out along the water front during the season.

RAILWAY CONSTRUCTION

Sections 29-30

The railway tracks along sections 29-30 were re-arranged to meet the requirements of the lessee of this allotment. An additional 45 ft. of tracks were laid to complete this layout.

Sections 31-34

Some 340 lin. ft. of tracks were laid along these sections to accommodate the Coal Companies occupying these new berths for storage purposes.

Sections 34-35

A new track 750 ft. in length was laid along the cope line of the new sawtooth wharf No. 5 including the necessary connection to the main railway system.

Section 39

The two cope tracks were extended along the wharf at section 39, the total addition amounting to 275 lin. ft. of tracks.

Section 56

A new spur or siding 540 ft. long connecting at each end with the track serving the coal dock at sections 56-58 was built during the season.

Sections 56-58

Some 2200 lin. ft. of tracks were lifted from sections 56-58 which were rendered obsolete by the construction of the new coal handling plant erected on this allotment by the Scotch Anthracite Coal Company.

Subways

The face or abutment walls of the Meese Street subway was renewed during the season and permanent steel girders installed to replace the old timber deck.

DREDGING

During the season of 1932, only one dredge and four derricks were put into Commission. These vessels worked on a ten hour schedule throughout the season.

The only Harbour development works these units took part in were the preparing of seats for the cribs at Sections 35, 104, 105, 106 and 107, sinking and back-filling of these cribs, and some reclaiming work at these locations; also at section 58 and the Laurier Pier.

Due to the insufficient volume of material obtained from the Harbour dredging operations for the different back-filling and reclaiming works in hand, most of the material was obtained from the Department of Marine Channel dredging operations in the vicinity.

The Department's dredging contractor on the Montreal Shore Channel also reclaimed some shore area through the deposit of its hydraulic dredge spoil on the bank and between two existing wharf moles. Four cribs were also filled in this way.

The Harbour dredging fleet did a comparatively large amount of maintenance dredging work in various parts of the Harbour.

TESTING AND SWEEPING

As time and conditions permitted, testing operations were carried out.

All the basins and fairways in the upper Harbour were swept as well as the greater portion of the Ship Channel from Tarte Pier up to Victoria Pier, the shore berths and basins in the vicinity of Tarte Pier, and the Channel connecting the Vickers' dry dock channel approach to Racine Pier, along the shore.

Wharf Examination and Surveys

Examination and surveys of old wharf structures were made with the assistance of a derrick and its crew during the season and, where necessary, some underpinning work carried out at places where undermining by the action of the current had occurred.

Crib Sinking

The following cribs were sunk on their prepared seats with the use of the Commissioners' fleet:—

At wharf allotted to British American Oil Co.—

T CO	ncrete	CTID	112	X42	X 42	sunk	at 31.09 below
							Elev. 93 H.D.
1	"	66		6.6	6.6	4.6	at 35.45 below
							Elev. 93 H.D.
1	"	66		4.6	6.6	6.6	at $31.94'$ below
							Elev. 93 H.D.
1	"	66		4.4	4.4	66	at $30.94'$ below
							Elev. 93 H.D.
1	66	66	90'	x42'	$\times 42'$	66	at 30.95′ below
							Elev. 93 H.D.

At wharf allotted to Sun Oil Co .-

1 concrete crib 107' x42' x 42' sunk at 36.20' below Elev. 93 H.D.

At wharf allotted to the Shell Oil Co. of Canada, and Lasalle Petroleum Refinery—

1	concrete	crib 9	$9.75' \times 42'$	x42'	sunk	at 36.65' below
						Elev. 93 H.D.
1	66	6.6	4 6	6.6	6.6	at 36.51′ below
						Elev. 93 H.D.
1	"	6.6	6.6	4.4	46	at 36.26′ below
						Elev. 93 H.D.
1	6.6	6.6	6.6	6.6	66	at 36.00′ below
						Elev. 93 H.D.
1	66	66	4.6	4.4	4.6	at 37.00′ below
						Elev. 93 H.D.

At Sawtooth wharf section 35-

1 timber crib 31' x 44.6' x 32' sunk at 32.35' below Elev. 93 H.D.

The following are the quantities of dredging and filling for the Season:—

Dredging

F

7.0051115		
	Cu.Yds.	
	(Scow)	(Scow)
Windmill Point Basin	6,850	
Sections 12 and 13	32,600	
" 15	27,550	
" 17	2,200	
19	4,000	
" 24 and 27	220	
" 38 to 42	2,850	
" 43 to 45	2,450	
" 109 and 110	6,500	
Crib Seats, British American Oil Wharf	7,200	
" " Sun Oil wharf	15,750	
" Shell Oil wharf	16,550	
Total material from H.C.M. Dredg	e	124,720
Total material from H.C.M. Dredg	e	124,720
	30,150	124,720
Filling (By Derrick)	=	124,720
Filling (By Derrick) Section 35	30,150	124,720
Filling (By Derrick) Section 35	30,150 21,800	124,720
Section 35	30,150 21,800 13,650 29,625	124,720
Section 35. Laurier Pier. Section 58. British American Oil Wharf, Backfill Sun Oil Wharf, Backfill	30,150 21,800 13,650	124,720
Section 35	30,150 21,800 13,650 29,625 6,525	124,720
Section 35. Laurier Pier. Section 58. British American Oil Wharf, Backfill. Sun Oil Wharf, Backfill. Shell-Lasalle Oil Wharf, filling cribs,	30,150 21,800 13,650 29,625 6,525	124,720 116,520
Section 35. Laurier Pier. Section 58. British American Oil Wharf, Backfill. Sun Oil Wharf, Backfill. Shell-Lasalle Oil Wharf, filling cribs, etc	30,150 21,800 13,650 29,625 6,525	116,520
Section 35. Laurier Pier. Section 58. British American Oil Wharf, Backfill. Sun Oil Wharf, Backfill. Shell-Lasalle Oil Wharf, filling cribs, etc.	30,150 21,800 13,650 29,625 6,525	116,520
Section 35. Laurier Pier. Section 58. British American Oil Wharf, Backfill. Sun Oil Wharf, Backfill. Shell-Lasalle Oil Wharf, filling cribs, etc	30,150 21,800 13,650 29,625 6,525 14,770	116,520 8,200

Sundry Items of Fillin	ng (By Derrick)		
From Gov. Dredges	-Section 35	112,950	
	Laurier Pier	19,500	
	Section 58	29,150	
	British American		
	Oil Wharf	6,000	
	Sun Oil Wharf	15,325	
	Shell-Lasalle Oil	., .	
	Wharf	20,880	
	_		203,805
Clammed Material:	Guard Pier	1,950	,
	Section 35	450	
	Laurier Pier	300	
	Section 58	150	
	British American	100	
	Oil Wharf	600	
	Sun Oil Wharf	1,750	
	Shell-Lasalle Oil	1,700	
	Wharf	1,250	
	vv iidii	1,250	
	_		6,450
Ballast, Rubbish, Et	c — Guard Pier		
	c — Guard Pier ms to Fill by Derri	_	1,650
		_	1,650 211,905
Total Sundry Ite	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated
	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team
Total Sundry Ite	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck)
Total Sundry Ite Earth, Cinders, Etc., Bickerdike Pier	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680
Total Sundry Ite Earth, Cinders, Etc., Bickerdike Pier Elevator "B"	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29	ms to Fill by Derri from City Contra	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 600
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29 Section 32	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 600 1,200
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29 Section 32 33	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 600 1,200 1,500
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29 Section 32 33 34	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 600 1,200 1,500 1,300
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29 Section 32 33 34 35	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 600 1,200 1,500 1,300 48,500
Earth, Cinders, Etc., Bickerdike Pier Elevator "B". Sections 28 and 29 Section 32 33 34 35 41	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 1,200 1,500 1,300 48,500 80
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29 Section 32 " 33 " 34 " 35 " 41 Elevator No. 3	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 1,200 1,500 1,300 48,500 80 8,000
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29 Section 32 33 34 35 41 Elevator No. 3 Section 58	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 1,200 1,500 1,300 48,500 80 8,000 70
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29 Section 32 33 34 35 41 Elevator No. 3 Section 58 Racine Pier	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 1,200 1,500 1,300 48,500 80 8,000 70 1,300
Earth, Cinders, Etc., Bickerdike Pier Elevator "B" Sections 28 and 29 Section 32 33 34 35 41 Elevator No. 3 Elevator No. 3 Section 58 Racine Pier Section 109	ms to Fill by Derri	cks	1,650 211,905 Cu. Yds. (Estimated by Team or Truck) 14,680 600 1,200 1,500 1,300 48,500 80 8,000 70

ELECTRICAL BRANCH

Power and Operation

The Commissioners purchased, under contract, electrical energy from the Montreal Light Heat & Power Cons. throughout the year, the power being supplied to their several sub-stations located at suitable points in the Harbour where it was transformed and redistributed to operate their plant and equipment as well as to service Outside Companies operating within the Harbour boundaries, as follows:

	H.P. Hours
Memorial Tower	. 18,821
Receiving Shanty	
Harbour Lighting	
Railway System	
Locomotive Round House	
Traffic Shanties	4,543
Sheds Supt. Shanty	. 527
Electric Hoists	
No. 1-2 Conveyor Galleries	. 757,460
Elevator No. 1	. 1,661,176
Elevator No. 2	. 1,317,370
Elevator No. 3	. 1,486,617
Elev. No. 3 Grain Trimmers	. 15
Elevator B	. 1,137,631
Storage Warehouse	3,609,584
Head Office Building	. 101,682
Victoria Pier Office	. 38,283
Berri St. Office	. 7,748
Machine Shop	. 215,180
Guard Pier Shops	
Floating Equipment	. 19,627
Outside Companies	. 1,099,782

Harbour Lighting

The whole of the Harbour Lighting was carried out by the Commissioners' Electrical Department during the year, the power being supplied through their several sub-stations. The general Harbour lighting is a series system which was formerly divided into six circuits, each having its own regulator. In addition a multiple circuit was used to light the high level wharf between the Warehouse and Victoria Pier and the Elevator No. 2 Marine Tower Jetty.

In order to reduce the costs of operation, these series circuits have been reduced from six to four, thus cutting out two regulators, and the high level wharf has been transferred to the series system, leaving only the No. 2 Marine Tower Jetty on a multiple system.

During the navigation season the general harbour lighting is provided by a maximum of 349-600 c.p. lighting units. This number is reduced to 125 during the winter months.

In addition to the general harbour lighting, a multiple system is provided along the ouside of each of the permanent sheds on the side facing the river or basins. Each shed is lighted by 400 watt units varying from four to six in number. This multiple outside shed lighting has a maximum of 154 units during the navigation season only.

The lights are distributed as follows:-

Series Circuit No. 1 Windmill Point and Bicker-		
dike Pier	59	Lamps.
" No. 2 McGill St. to East End of		
Shed No. 11	75	"
" No. 3 East end of Shed No. 11 to		
East end of Warehouse	77	* *
" No. 4 East end of Warehouse to		
Racine Pier	122	66
Multiple Circuit on Elevator No. 2 Marine		
Tower Jetty	16	
Total for General Harbour Lighting	349	Lamps.
Multiple lighting on River Side of Freight Sheds	154	66
Grand Total	503	Lamps.

Harbour Bridge Lighting

This is a series system formerly operated on four regulators which have been reduced to two in order to cut down on the losses, two circuits to a regulator thus retaining the four lighting circuits on the bridge in case of trouble on any circuit which could be disconnected leaving three in operation, the number of units being as follows:—

Series	Circuit	No.	7	West	Side	of	Bridge
				/ A 1 .		\	

(Alternative)	46	Lamps.
" No. 8 East Side of Bridge		
(Alternative)	47	"
" No. 9 West Side of Bridge		
(Alternative)	43	66
" No. 10 East Side of Bridge		
(Alternative)	42	66
Total Roadway Lighting	178	Lamps.
Navigation Lights for Ship Channel	2	66
Grand Total	180	Lamps.

Railway Electrification

During the year, very little was done on the railway system beyond general maintenance and repairs. The remainder of the bracket construction was completed in the eastern section where there are not more than two tracks, about 40 brackets being installed. Two new steel poles were erected at Section 15 to replace two which were badly bent due to the strain of the overhead on Alexandra Pier, installed following the erection of the first ones.

Electrical Sub-Stations

Sub-Station No. 1—This station is located in the east end of Elevator No. 1 and was supplied with a 2200 Volts service.

In view of the expiry clause in the power contract, however, the supplementary 11,500 Volts sub-station equip-

ment in the west end of Shed No. 11 was transferred to Sub-Station No. 1 during the year.

This transfer was recommended in order to eliminate the erection of a considerable number of overhead cables between the two stations, while at the same time bringing this station up-to-date, the 25 year old transformers, etc., being taken out to be scrapped.

A water recooler was installed to cut out the purchase of City water for the water cooled transformers.

Further, the power supply is received from Station No. 4 through a 2200 Volts tie-in line and will continue to be so fed until such times, after the opening of navigation, as the demands for power rise in excess of the line capacity, at which time the station will be put back on the 11,500 volts service during the days and switched back on Station No. 4 at nights when the only demand is for lighting. With this arrangement the large transformers are cut out during light loads with their incidental losses and the necessity for operators after the elevator is closed down at nights is eliminated.

Sub-Station No. 3—This station is located in the east end of the Harbour Yard Shops to service the eastern section of the Harbour. It is supplied with a 11,500 volts service and in addition is tied in with Station No. 4 through a 2200 volts line.

To facilitate the correction of power factor and the feeding of the station during light load periods, an additional 2200 volts tie-in line was erected during the past year.

No power factor penalties were paid during the year but a certain amount was expended for the correction of power factor which only costs about one sixth of the penalties.

This station is now being operated 10 hours during the day, is closed every night and the whole of the winter months, during which periods it is fed 2200 volts from No. 4 Station through the tie-in line. **Sub-Station No. 4**—This station is located at the eastern end of the Storage Warehouse at Beaudry St. to service the Warehouse and the Electric Railway. It is supplied with a 11,500 volts service and is also tied in with No. 3 and No. 1 Stations through 2200 volts tie-in lines.

The station was divided into two sections originally, the lower floor being entirely for the control of the Railway and the upper for the Warehouse. In the latter part of 1931 the controls of the Warehouse machinery were transferred to their respective locations in charge of the person responsible. In addition, protective equipment purchased under Electrical Extensions 1927 was installed during the past year, which brings the station in line with present day standards.

The installation of this equipment was arranged in such a manner as to facilitate the use of any of the synchronous machines either for Railway electrification or as condensers for the correction of power factor throughout the system.

Sub-Station No. 5—This station is located at Elevator "B", to service Windmill Point, Bickerdike Pier and Guard Pier Shops. It is supplied with a 11,500 volts service and is completely isolated from the remainder of the system by the Lachine Canal except during the winter months after the Canal is closed, when a temporary 2200 volts tie-in line is erected to tie-in the station with the remainder of the stations. This was first done in January 1932, after which the station was fed first from Station No. 1 and afterwards from Station No. 4. This line was taken out about April 6th. 1932 at the request of the Department of Canals for the opening of navigation. It was erected again on December 15th, 1932 and will remain in operation until the beginning of April 1933. Through this line the station is being fed from No. 4 Station thus eliminating power factor penalties, water consumption and losses due to energizing the large transformers.

Services to Outsiders

A temporary station was erected for the use of the General Dredging Contractors at Section 103 to operate their electric dredge.

At the Scotch Anthracite Coal Co's allotment at Section 57 an Outdoor Sub-Station of 450 K.V.A. was erected for the operation of the Company's new coal bridge. At a later date a static condenser was also installed in this station for the correction of power factor at the request of the Company.

Electric Hoists in Freight Sheds

The electric hoists in the freight sheds have been operated and supplied through the several sub-stations, those located west of Victoria Pier being supplied from No. 1 Sub-Station, while No. 4 Station supplied the energy for the remainder.

The following is a comparative statement of freight hoist operation for the past three years:—

A Comparative Statement of Teams Carried and Number of Days operated for each individual Hoist.

	Teams Days in Carried Operation		Open Dat		Closi	0
1930 Hoist No. 1	9,602	202	April	21	Dec.	13
1931	9,519	202	6.6	20	66	12
1932	9,925	200	6.6	18	66	9
1930 Hoist No. 2	19,812	202	6.6	21	6.6	13
1931	18,571	202	6.6	21	6.6	12
1932	20,659	206	6.6	13	"	10
1930 Hoist No. 3	15,171	203	66	21	66	13
1931	14,629	203	6.6	20	4.6	12
1932	18,043	207	6.6	18	"	15
1930 Hoist No. 4	5,060	196	6.6	28	6.6	13
1931	6,217	203	6.6	20	66	12
1932	7,374	200	66	19	6.6	10
1930 Hoist No. 5	7,129	201	"	21	4.6	13
1931	5,163	202	66	20	6.6	12
1932	1,836	66	66	25	Sept.	20

	Teams Carried	Days in Operation	Openi Date	0	Closi Dat	-
1930 Hoist No. 6	6,735	196	April	21	Dec.	6
1931	164	15	66	21	May	7
1932	156	9	May	11	66	20
1930 Hoist No. 7	4,022	196	April	21	Dec.	6
1931	3,281	203	44	20	6.6	12
1932	5,902	201	6.6	18	6.6	10
1930 Hoist No. 8	16,275	211	66	21	66	24
1931	18,993	207	4.4	15	66	12
1932	12,856	206	4.6	20	66	17
1930 Hoist No. 9	14,862	203	6.6	21	"	13
1931	18,446	210	66	14	66	12
1932	17,607	206	44	13	66	10

MAINTENANCE

Wharves

The Maintenance force, in addition to ordinary patching of wharves, examination of sewer outlets, examination of and attention to crib seats, taking care of temporary pile clusters, landings and floating platforms used during the season by the different industrial companies in the Harbour, as well as the Elevator No. 2 Jetty bridges and stairs, carried out the following work:

Driving of Piles

- 28 Piles at Section 70 for the Independent Sand Co.
- 12 piles at Section 104 for the Shell Oil Co.
- 38 piles at Section 62 for the Shell Oil Co.
- 28 piles at Section 34 for the Montreal Light Heat & Power Co.

14 piles at Section 61 for the Shell Oil Co.

Wharf Repairs

Repaired section of wharf 200' x 12' x 12' at Sections 10 and 11 N.

Repaired section of wharf 150' x 7' x 15' at Section 41.

Repaired section of Railway Embankment Retaining wall 150' x 8' x 8" at section 48.

Repaired section of old Crib face 450' x 12' x 10', Jacques Cartier Pier.

The above repairs included attention to bollards where necessary and the maintaining of existing fenders.

Buildings

The usual maintenance of the transit sheds, grain elevator buildings, Cold Storage warehouse building, etc. including a rather heavy programme of exterior painting of elevators, was carried out by the Commissioners' Forces during the season.

Plumbing

The laying of sewer and water main extensions, the equipment of lavatory rooms, the repair and renewal of the plumbing system along the waterfront, including all buildings, transit sheds, grain elevators, owned by the Commissioners, were carried out by the usual plumbing force.

Roadways, Sheds, Water Service, etc.

The general cleaning and watering of the wharves, roadways and sheds was kept up during the season.

Water service to sheds and latrines was connected up by May 1st and kept in good order throughout the season. This service was discontinued on December 10th, except for Sheds 8 and 47, which were kept open during the Winter.

The sheds were kept clear of all rubbish throughout the season, the refuse being put on scows placed at the sheds for this purpose, and the scows taken away regularly when loaded.

3,909,900 cubic feet of fresh water was supplied to 730 ships during the navigation season.

The Quick Acting Gates in the Flood Protection Wall were kept in good working order at all times, and the steps placed at Sections 12, 14, 15, 16, 18 and 19 for the purpose of allowing pedestrians on and off the wharves when the

Flood Gates are closed, during the winter season only, were kept free of snow and ice.

The usual force of watchmen, etc., was employed to protect the property of the Commissioners, to guard the public from accident and to regulate the Harbour dumping grounds.

Life Saving Equipment

The usual precautions were taken to facilitate the saving of life and the prevention of accidents by the maintenance of railings and the distribution of ropes, gaffs and life preservers at frequent intervals along the waterfront, and these proved their value on a number of occasions during the season.

Fire Prevention

All hydrants and fire equipment were inspected daily and kept in readiness for service.

All fire extinguishers were recharged on May 1st and kept in operating condition, by daily inspections.

Railway Tracks

The usual track maintenance from Sections 12 to 101, including the replacement of rails, turnouts, switches, cross ties, upkeep of roadbed, maintenance of way, snow removal, etc., etc., was carried out throughout the season by the railway section gangs.

Harbour Bridge and Approaches

General Maintenance of the Harbour Bridge and approaches was carried out during the year including repairs to concrete and asphalt, painting, clearing away of snow from the roadway and footpath, etc.

Paving

Paving repairs were carried out during the season at sections 13, 14, 15, 17, 18 and 19, opposite shed 16 and at Market Basin.

Mechanical Equipment

The principal items of equipment attended to during the year were:

Elevator "B"

- New 75 H.P. chain drive was installed at Lofter Legs 1 and 5.
- 17 Electric Garner signals were installed which act as tell-tales when grain in garner is approaching full capacity.

Elevator No. 1

New 150 H.P. chain drive was installed at Lofter Legs 6, 7 and 8.

Steel Bins around Lofter Leg No. 5 were reinforced.

Circular Girders were installed in Bins 185, 186, 173 and 174.

All garners were equipped with garner signalling device as at Elevator "B".

New winch cable was installed in Jamieson Leg.

Back of No. 1 Marine Leg was renewed.

Elevator No. 2

New 125 H.P. chain drive was installed at Lofter Legs 16 and 17.

All garners were equipped with garner signalling device as at Elevator "B".

Elevator No. 3

Electric Brake device was installed on Lofter Legs Nos. 1 and 2 in Annex.

10 Garners were equipped with Garner Signalling device as at Elevator "B".

Hoists:

Twenty-five hoists were overhauled.

48 hoisting and counterweight cables were renewed.

Steelwork supporting car platforms was scraped and painted.

Platforms were repaired where necessary.

Elevator and Conveyor Belt Replacements

Elevator No. 1

One 35 x 7 Ply x 444 feet No. 11 Lofter Leg. One 42 x 4 Ply x 1100 feet Conveyor Floor.

Elevator No. 2

One 26 x 7 Ply x 250 feet Marine Leg One 36 x 4 Ply x 750 feet Marine Conveyor

Elevator No. 3

One 36 x 4 Ply x 500 feet Conveyor No. 2. One 36 x 4 Ply x 500 feet Conveyor No. 6.

Elevator "B"

One 36 x 4 Ply x 700 feet Conveyor Bin Floor. One 36 x 4 Ply x 500 feet Conveyor Ground Floor.

Galleries

One 36 x 4 Ply x 1000 feet Conveyor 16A.

Cold Storage Plant Equipment

The refrigerating equipment in both the Warehouse and Power House continued to give satisfactory service throughout the year.

The three Ammonia Compressors in the Power House were overhauled and placed in good running order.

During the year, 2247-100 lb. blocks of ice were made and delivered to the various harbour works and fleet.

Harbour Yard Shops

Due to comparative shortage of work during this year, the shop forces were kept at a minimum, working only 30 hours per week for the greater part of the year. The total number of orders executed in these shops and their allocation were as follows:

Elevator No. 1	63
" No. 2	61
" No. 3	50
"B"	72
Conveyor System	56
Electrical Dept	181
Loco. Cranes, etc	119
Gd. Pier and Shipyard	230
Traffic Dept	359
Cold Storage	30
General	489
	1,710

A wide variety of work was carried out in these shops in a satisfactory manner.

Floating Plant

The only vessel wintering on the Commissioners' Shipways was the Grain Barge "Ethel" for repairs to steel hull and to renew inside lagging.

The necessary Winter Repairs to the Fleet were carried out but only the following units were put in service at the opening of navigation:

Tugs "Sir Hugh Allan", "Robert Mackay", "St. Peter", Launch "Messenger".

Dredge No. 6.

Three Derricks, Shop and Sawmill Derrick, Floating Crane. Testing boat and pile driver.

During the season, the tug "David Seath" was fitted out and made ready for work in case of need and one more derrick was put in commission.

The fitting of concrete ballast in the hull of the 75 ton Floating Crane was completed. The inside of hull was scraped and painted all over.

Bunkers and floors were renewed.

The tug "Sir Hugh Allan" was docked to renew stringer plates and bars in bunkers, the work being done by Vickers during the month of June.

Floating Crane

The record of work done by the Floating Crane is as follows:

8	206 85	
Total number of lifts		
Commercial	554	
Average weight of lifts		
Commercial	9 12	tons
Greatest lift		
Commercial Commissioners' service	68 52	tons
Greatest tonnage from single ship		
"SS. Rajnildsholm" 2	69	tons
Total weight lifted		
Total weight lifted in season 1931 12,5	70	tons
5,2	70	

Locomotive Cranes

The amount of coal handled by our Cranes from ships was greater by some 22,700 tons than last year.

The distribution of working time is as follows:

	1932	1931	1930	1929
On Coal	88%	82%	69.7%	45.6%
On Harbour Work	9%	7%	7.9%	21.2%
On Miscellaneous Work	3%	11%	22.4%	33.2%

EMPLOYMENT IN THE HARBOUR OF MONTREAL

The following table shows the maximum and average number of workmen employed by the Harbour Commissioners during the season of 1932, in the various operations of the Port, exclusive of men employed by the different contractors on Harbour construction work:—

		Maxi-
	Average	mum
Elevator No. 1: Operation	35	39
Car Shovellers	3	4
Boat Shovellers	31	32
Elevator No. 2: Operation	34	35
Car Shovellers	6	7
Boat Shovellers	26	28
Elevator No. 3: Operation	37	39
Boat Shovellers	27	36
Elevator "B": Operation	33	33
Car Shovellers	7	7
Boat Shovellers	28	30
Elevator Repair Gang	57	59
Conveyor Galleries: Elevators 1 and 2	43	43
Elevator 3	15	15
Elevator "B"	9	9
Cold Storage Warehouse, Operation	32	43
Power House Operation, Refrigeration	10	15
Power House Operation, Electrical	8	8
Railway Traffic Operation	83	99
Machine Shop (Harbour Yard) and Loco-		
motive Round House	96	100
Shipyard	33	33

		Maxi-
	Average	mum
Guard Pier Repair Shop	33	37
Electrical Department		119
Transit Sheds Maintenance	11	11
Construction Wharves, Tracks, etc	61	94
Harbour Maintenance	185	244
Police Department	45	47
Harbour Bridge Operation		19
Dredging Fleet: Crews of Dredges, etc		105
Fleet Watchmen	12	12
Temporary Painters	29	40

WATER LEVELS

The depth of water for navigation in the Montreal Harbour Ship Channel and on the Sill of Lower Lock, Lachine Canal, is given in the following table:—

	-	Old Lock ine Canal.	•	Harbour nnel.	
	Average	Average	Average	Average	
	1923-32	1932	1931	1932	
May	19'4''	17'2''	30'11''	32'7''	
June	17'5''	15'7''	30'9''	31'0''	
July	16'1''	15'1''	29'4''	30'6''	
August	15'2''	15'0''	28'11''	30′5′′	
September	14'6''	15'8''	28'9''	31'1''	
October	14'7''	16'3''	28'6''	31'8''	
November	15'1''	17′3′′	28'9''	32'8''	

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		Remarks		Steel Hull, Rblt. 1923-24 Steel Hull. Steel Hull.	Wooden hull, Rblt. 1925 Wooden hull. Wooden hull. Wooden hull. Wooden hull. Steel hull, Rblt. 1930. Wooden hull, Rblt. 1929.	Wooden hull, Rblt. 1921.	Steel hull.	Steel hull.	Steel hull, twin screws.	Steel hull, twin screws.	Wooden hull, Rblt. 1925.	Wooden hull.	Three 5 in. steam drills Rebuilt 1923.
	hich	Depth to w	ft.	40 40 50	: : : : : :	:	:	:	:	:	:	:	:
,	13 A	Capacity of Bucke	c.y.	1111	: : : : : :	:	:	:	:	:	:	:	:
PLAN I 1952		Pres- sure of steam	lbs.	125 125 140	140 125 125 125 125 140	125	140	140	180	140	110	140	100
G PLAN		Length of stroke	inches	18 8 1 8 1 8 1	************************************	22	24	24	24	18	10	22	
FLUALING	Engines	No. of Dia. of cylin-ders	inches	16 16 16	122222	20	16 }	16	255	12 {	6	13 26	
	Eng	No. of cylin- ders		222	202200			<u></u>	-000	100			:
OF MOINTREAL		Kind of Engine		Horizontal non- condensing	Horizontal non- condensing	Vertical non-	Vertical con-	densing	Vertical triple expansion	Vertical condensing	Vertical high pressure	Vertical condensing	
MENS	When	built		1892 1910 1912	1899 1900 1892 1892 1892 1915	1875	1895	1899	1911	1911	1912	1915	1895
COMINISSIONENS		Depth	ft. in. over all	7Aft. 6 11 10 9	00077700	9 8	0 6	10 0	15 0	0 6	5 7	10 2	over all 5 6
	Hull.	Breadth	ft. in. beam	37 0 36 2 39 2	31 2 27 6 27 10 27 10 27 10 31 0	16 1	18 3	17 6	26 6	22 0	11 3	00 IO	27 0
		B	in. fi	402	202-1-2		3	9				5	0
		Length	ft. over	104 104 104	87 77 80 80 80 87	7.4	79	80	130	91	49	75	80
		Description of Vessel	Dredges	nedy (Boom Spoon)	No. 1 Clam shell No. 3 """ No. 4 "" No. 5 """ No. 6 """	Tugs St. Peter (Fire Tug)	Aberdeen	Robert Mackay	Sir Hugh Allan	John Young	Passe-Partout	David Seath	Drilling and Blasting Boat

								119	9										
Wooden hull. Two wooden hulls braced 16 ft. apart;	overnauled 1924. Composite hull steel and wood; capacity about	27,000 bushels. Machinery and all superstructure removed	scow.	Max, load at 51' radius 75 tons	Max. height of hook at 51' radius 100'.	No. 2, Rebuilt 1925. No. 22, Rebuilt 1926.	Rebuilt 1925.		No. 42, Rebuilt 1925.	No. 50 Rebuilt 1925. No. 52 destroyed and	replaced by new scow built at Sorel.			Purchased 1926.				No. 36 Reblt. 1924; No. 37 Reblt. 1925.	Nos. 33 and 45 demolished 1931.
	:			:			:	:	: :			:	:		:	: :	:	:	:
		:		:		: :	:	:	: :	:		:		: :	:	: :	:	:	:
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9	:	:		:		: :		:		:		:	:	: :	:	: :	;	:	:
rv.	:	:		:			:		: :	:			:	:	:		:	:	:
9		:		:		: :	:	:	: :	:		:		:	:	: :		:	:
Red Wing 100HP				Capacity 75 tons	-	07 ½ yds. 150	150 "		150 "	300 "		300	300					200 "	use.
1926 F	1910	:	1896	1909		1876 1891	1891	1892	1904	1911-23	1 6	1925	1927			1924	1926	1900	unfit for
227	2	9	4 9	0	() IV	6) C	9	0	(00	0	9	न न	· 77	4	9	
w m m	17	∞	so ro	10	,	0 1-	9	0 9	7.0	6	(00	6	40	n (1)	4.	~	6	totally
+00	11	0	0 10	10		70				0		00					0	10	scows
0 14 14	27	35	24 24	43		25	25	22	25	30		300	30	24	3 12	18		26	
044	0	0	0 4	S			0			0								0	These
30 (81 (81	158	101	25	200		258				100		96		-	Q# CF		3 45	106	
Motor Boat "Messenger"	Grain barge "Ethel"	Floating concrete machine	Dynamite ScowFloating pile driver.	Floating Crane	Scows.	2 Flat scows Nos. 2 and 4	23	99	999 999 999	11 44,47,50-53, 55 and 57-60		2 01 and 62	1 67	2 A-6 and A-7.	1 Wharf Repair Scow No. A-4	1 Diver's scow No. A-1.	2 Dust scows Nos. A-2 and A	5 Dump scows Nos. 56, 57 and 38	9 Flat scows Nos. 21, 26, 28, 35, 39, 40, 43, 46 and 54

AVERAGE DEPTH FOR EACH MONTH IN THE 30-FOOT CHANNEL AT SOREL (30 Feet at Extreme Low Water of 1897)

						10000			
Year	May	June	July	August	September	October	November	High	Low
1918	35' 1"	33' 0"	32' 10"	30' 11"	31' 4"	32' 6"	33' 10"	36' 11"	30' 3"
1919	38' 7''	35' 7"	32' 5"	31' 4"	31' 1"	31' 7''	32' 9"	39' 11"	30' 3''
1920	33' 7''	30' 10''	30' 4''	29' 9''	29' 4"	29' 4''	29' 4"	34' 8''	28' 3"
1921	34' 7''	31' 9''	30' 10''	31' 7"	29′ 10″	30' 2''	30' 5''	37' 6"	30' 1''
1922	36' 0''	33' 9''	34' 2''	32' 2"	31' 2"	31' 3"	30' 11"	37' 8''	30' 1''
1923	38' 4''	34' 6"	32' 4"	31' 5"	31' 4''	30' 11"	30′ 9″	39' 1''	30' 0''
1924	38' 7''	34' 5"	32' 5"	31' 10"	31' 11"	32' 3"	31' 3"	40' 0''	30' 1"
1925	35' 2"	33' 9''	32' 4"	31' 8''	30' 11"	31' 2"	31' 9"	36' 6"	30' 3"
1926	37' 4"	34' 6"	32' 10"	31' 7''	31' 1"	31' 3"	33' 2"	39' 6"	30' 6''
1927	34' 3''	33' 11"	33' 3''	32' 5"	31' 3''	31' 4"	34' 10"	37' 8'''	30′ 5″
1928	40' 3"	36' 6"	34' 0''	33' 0''	32' 8"	34' 0''	34' 2"	41' 7''	31' 7"
1929	39' 11''	35' 11"	34' 4"	32' 9''	32' 2"	32' 3"	32' 3"	41' 4"	31' 3"
1930	36' 4''	35' 6"	35' 1"	33' 2''	32' 9''	31' 8''	31' 0"	37' 4"	30' 3"
1931	33' 3"	32' 6"	31' 5"	31' 5"	31' 6"	31' 5"	31' 8''	34' 4"	30′ 9′′
1932	34' 11"	33' 3"	32' 10"	33' 0''	33' 9''	34' 3"	35' 0''	36′ 0″	32' 0"
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INDEX

	age
Average Depth in Ship Channel	120
Coal and Coke Imports	89
Cold Storage Warehouse	47
Commodity Tonnage Statement	49
Domestic	78
Dredging	101
Electrical Branch	103
Employment Statistics	116
Engineering Department	90
Exports	69
Extent of Wharves	95
Financial Statement	15
Grain Elevator System	35
Grain Statistics	. 43
Growth of Bulk Cargo Imports	8
Harbour Railway Terminals	44
Imperial Economic Conference	5
Imports	55
Inward & Outward Cargoes 28 and	29
	119
Maintenance	109
Miscellaneous	87
New President & Commissioner	10
Paving	97
Police Department	48
Principal Exports	53
Principal Imports	51
Railway Construction	98
Scottish Trade Mission Ship	11
Senator J. H. Rainville	9
Sewers, Intake Pipes & Water Mains	96
Shipping	21
The "Cymbeline" Tragedy	12
Tonnage Summary	88
Water Levels	
water Levels	117









